## Attachment 8A Copies of Clean Harbors Field Services Worksheets, Documenting Cleaning of VT-132

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Site Services Multi-Task Worksheet

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15	19. H	azardous Waste Report N	fanagement Method	Codes (i.e., codes for	hazardous waste treat	tment, disposal	, and recy	(cling systems)						
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	20. D	esignated Facility Owner	or Operator: Certifica	tion of receipt of haza	rdous materials covere	ed by the manif	est excep	t as noted in Ite	m 18a					
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July 15, 2011

Martin Matlin (3LC70) U.S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029

Via Certified Mail No. 7007 0710 0000 3856 5801

Re: Response to USEPA Request for Information Dated 24 May 2011

Sunoco, Inc.

EPA ID No. PAD002312791 Reference Number: C11-020

Dear Mr. Matlin:

The Sunoco Frankford Plant (Sunoco) is pleased to submit the following additional information in response to USEPA's letter dated May 24, 2011. Note that Sunoco submitted an initial response on June 24, 2011 which addressed the majority of the questions in your original request.

This letter addresses items number 2 and 10 from your May 24, 2011 correspondence. The text of the questions are shown in bold and italics, followed by Sunoco's response. The numbering of each supporting document indicates the number of the question to which it responds, and individual documents are then identified by sequential letters.

- 2. There appeared to be residue found around Boiler #1, its associated piping, on a nearby bucket, and on the floor nearby (see Photos 25-29). Regarding <u>each</u> of these areas of residue, please provide:
  - a. A detailed description of its source

The black stains and tar-like material discovered during the inspection on the boiler house floor and the piping is caused by incidental drips and leaks occurring during routine operation and maintenance activities that include removal of burner rods from the boilers and replacing fuel tips. The bucket of material was removed and returned to the process for recovery and processing.

The liquid fuel (either No.6 oil or phenol residue waste fuel) is introduced to the combustion chamber of the boilers through one of six fuel rods equipped with a tip that dispenses the fuel in an aerosol pattern into the combustion chamber. The fuel rods are designed to allow for steam and fuel to be mixed at the fuel tip and deliver the fuel to the combustion chamber to allow for complete combustion. Periodically the fuel tips will become fouled and must be removed, cleaned and placed back in service. This process requires shutting down the fuel rod by turning off the fuel, purging the rod with steam, pulling the rod from the boiler while other fuel rods are in operation, cleaning and replacing the fuel rod. Disconnection and reconnection of the liquid fuel feed system can sometimes create small drips at fitting and connections. It is standard practice for the boiler house operators to immediately stop any drips during the burner replacement process by ensuring fittings are tight and secure. Drips are routinely wiped up using rags which are collected in a satellite accumulation area.

Boiler 1 was recently shut down for several weeks for a maintenance turnaround. During this turnaround the tar-like residue observed on the piping and floor under the burner manway was cleaned.

#### b. Its date(s) of generation

Drips and use of rags occur occasionally during routine operation. Sunoco does not have information regarding the specific dates of these events. Please see Sunoco's response to Question 2.h. for information regarding dates hazardous waste was sent off-site for disposal.

c. State whether a "waste determination" and "LDR determination" has been made for the material.

The material contains a mixture of phenol residue (K022) and No. 6 oil. Since the phenol residue is listed as a K022 waste, the rags are disposed with a K022 hazardous waste code.

d. If a "waste determination" and "LDR determination" has been made, state when such a determination(s) was made and the results of such determination(s)

The hazardous waste determination for the phenol residue waste fuel was made prior to the effective date of the RCRA regulations and is based on process knowledge.

e. If the material has been determined to be "hazardous waste," please state the specific EPA Hazardous Waste Code(s) associated with such hazardous waste.

If it has been determined not to be hazardous waste, explain the reasons for such determination.

The phenol residue is a hazardous waste with the code K022. Therefore the rags that are used for clean up also have the code K022.

f. State whether any hazardous waste determination made for such waste was based on the generator's knowledge of the process that generated the waste, or upon analytic results. If a determination was made on the basis of process knowledge, describe in detail the scientific rationale for such a determination. If the determination was based on analytical results, describe the sampling procedures and provide copies of any and all such results.

The waste code K022 is the material from the distillation column bottoms from the manufacture of phenol and acetone from cumene. Process knowledge of the manufacturing at the plant was used to assign the waste code. Analysis is not required to identify K-listed wastes,

g. Please state if the material has been removed and/or shipped off-site and the date of such removal and/or shipment(s). If the material has not been shipped off-site, state its current location and explain why it has not been shipped off-site.

The material in the bucket was returned to the process for reclamation. The material on the floor has been steam cleaned and pressure washed and the water returned to the process for reclamation. The drips and leaks on the piping and boiler equipment have been further cleaned. Rags and scrapings from the cleaning of equipment have been drummed for off site disposal.

h. If the material was shipped off-site, provide copies of all bills of lading, manifests (including but not limited to hazardous waste manifests), shipping invoices, and LDR notices and certifications that accompanied and/or refer to each off-site shipment of this waste.

Attachment 2A includes copies of waste disposal manifests and land disposal restriction notification forms for the last 3 years of disposal of waste solids contaminated with phenol. This waste stream includes the rags generated in the boiler house. Note that Sunoco does generate this waste stream at other locations in the facility. Records are not kept to denote where each individual waste drum is generated. Accordingly, drums reported on these manifests are not all generated at the boiler house.

10. At the time of EPA's inspection, did the Facility maintain a written job description for

each of the positions related to hazardous waste management, which includes the requisite skill, education, or other qualifications, and duties of Facility personnel assigned to each position? If so, please provide a copy of the job descriptions being maintained at the time of the inspection. If a list of job descriptions was not maintained at the time of the inspection, provide a copy of any such list created since the inspection, identifying the date on which such list was compiled.

At the time of the inspection, Sunoco did maintain job descriptions for each of the positions related to hazardous waste management. There are two hourly positions in the facility which include routine management of hazardous waste: Material Handler and Lab Assistant. Job descriptions for these individuals are included as Attachment 10A. In addition, there are two salary positions that include routine management of hazardous waste activity: Environmental Manager and Senior Environmental Engineer. Job descriptions for these individuals are included as Attachment 10B.

Other manufacturing-related jobs at the facility may include occasional handling and disposal of hazardous waste. For these additional manufacturing jobs, there is a requirement to understand RCRA procedures; however, waste management is not a major component of the job. For these positions, existing job descriptions are included as Attachment 10C.

All Sunoco employees (except clerical staff) receive annual training on RCRA issues that are required to be understood as deemed necessary by department supervision, that meets the requirements of 40 CFR 262.34 and 265.16. Copies of RCRA training records for all employees are included as Attachment 10D.

#### CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

I certify that the information contained in this response to EPA's request for information and the accompanying documents is true, accurate and complete. As to the identified portions of this response for which I cannot personally verify their accuracy, I certify under penalty of law that this response and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature: Name: WILLIAM ROCEDAUSH

Title:

PLANT MANAGER FRANKOFF PLANT

If you have any questions concerning this matter, please contact Paul Persing at (215) 807-8453.

Sincerely,

William Rodebaugh

Plant Manager

Would

Attachments

## Attachment 2A Manifests for K022 Phenol Residue Solids Disposal

### Phenol Residue Solids

Shipping Name: UN3243, Waste Solids Containing Toxic Liquids, N.O.S.,(Cumyl Phenol, Phenol), 6.1, PG II

ERG #: **151**Waste Codes: **K022** 

Profile No. CHESI CH12050

		Conta	ainers	Total	Ü	Disposal	EPA
Ship Date	Manifest No.	No.	Туре	Quantity	Units	Facility	ID Number
6/11/2008	002057455FLE	7	DM	940	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
6/15/2009	002212579FLE	14	DM	1,895	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
10/6/2009	002922556FLE	13	DM	6,552	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
4/13/2010	003038729FLE	10	DM	3,236	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
7/28/2010	003395210FLE	1	DM	140	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
9/29/2010	003397416FLE	5	DM	2,750	P	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
10/13/2010	003917608FLE	1	DM	300	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
12/22/2010	003452947FLE	4	DΜ	640	Р	Clean Harbors El Dorado. El Dorado, AR.	ARD069748192
1/19/2011	003916186FLE	43	DM	10,910	Р	Clean Harbors Env Svcs, El Dorado, AR	ARD069748192
3/9/2011	003917962FLE	1	DM	60	Р	Clean Harbors Env Svcs, El Dorado, AR	ARD069748192

Total 99 Containers 27423 P

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Blea	ıse prir	nt or type. (Form o			7	pewriter.)	. `	73194				G1/10/2008		n Approved.	OMB No.	2050-0039
1	UNIF	ORM HAZARDO	US 1. Gen	erator ID Numb	ber .			2. Page 1 of	3. Emerg	gency Response	Phone 4	Manifest 00	205	745	55 F	LE
		nerator's Name and		255	•			1	Generalo	rs Site Audress	(ii different th	an mailing addres	s)			
	Ph	ergeret end B Hadelphia - F	PA 1913	17							·					: ;
	Gener	ator's Phone: 21	5 807-84 Name	142								U.S. EPA ID N	lumber			
	,	ean Harbors		gental Ser	vices inc	3				· · · · · · · · · · · · · · · · · · ·		U.S. EPAID N		3 2 2	250	
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	9a.	9b. U.S. DOT Des	scription (inclu		hipping Name	Hazard Class	s, ID Number,			10. Conta	iners	11. Total	12. Unit	13.	Waste Code	<b>3</b>
	нм	and Packing Ground 1. UN3175, V	,,	SOLIDS	ONTAIN	IING FLA	MMABLE	E LIQUID	).	No.	Туре	Quantity	Wt./Vol.	D001	U055	
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ENER		2 UN3243, V					XIC LIQU	ID. N.O.S		00,1	- A	1000	<u> </u>	K022		
9	X	(CUMYLF	HENOL	, RAGS).	6.1, PG	B.			ŀ	007	DM	0940	ρ			
	x	3. UN9243, V (PHENOL)			ONTAIN	ING TO	KIC LIQUI	ID, N.O.5	3.,					U188		
										030	DM	9530	p			U
	Х	4. UN3243, V (CUMENE				IING TO	KIC LIQUI	ID, N.O.S	3,					U188		
Ш										<b>204</b>	1911	1090	٩١	1		1. 1
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	14 Sp	pecial Handling Instr PREENKY E	2 5 5	dditional Inform 33 3000	nation	1. L3755 2. CH12		_	RG#3 RG#6	3	3.	L37558-W L37560		ERGI ERGI		-3
						2. CH12	050	Ē	RG#3	3	3. 4.	L37558-W L37500	uck s		151	
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Page 1 of 2

Print Date: 06/10/2008

**MANIFEST INFORMATION** 

Generator: Sunoco Chemicals

Address: Margaret and Bermuda Street

Philadelphia, PA 19137

EPA ID#: PAD 0 0 2 3 1 2 7 9 1

**Manifest No** 

002057455FLE

**Sales Order No: 731945716** 

LINE ITEM I	NFORMATI	ON			
Line Item: 1	Page No:	Profile No: L37557	Treatability Group: NON- WASTEWATER	LDR Disposal Category: 2 : This is subject to LDR.	
EPA Waste D001 U055	Codes			EPA Waste Subcategory High TOC Ignitable Liquids NONE	
Line Item: 2	Page No:	Profile No: CH12050	Treatability Group: NON- WASTEWATER	LDR Disposal Category: 2 : This is subject to LDR.	
EPA Waste K022	Codes			EPA Waste Subcategory NONE	
Line Item: 3	Page No:	Profile No: L37558-W	Treatability Group: NON- WASTEWATER	LDR Disposal Category:  2 : This is subject to LDR.	
EPA Waste U188	Codes			EPA Waste Subcategory NONE	
Line Item:	Page No:	Profile No: L37560	Treatability Group: NON- WASTEWATER	LDR Disposal Category: 2 : This is subject to LDR.	0.000
EPA Waste	Codes			EPA Waste Subcategory NONE	
			<u>Certification</u>		Applies to Manifest Line Item

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268. 1 2 3 4



Page 2 of 2

Print Date: 06/10/2008

ENVIRONMENTAL SERVICES, INC.  MANIFEST INFORMATION		
Generator: Sunoco Chemicals		Manifest No
Address: Margaret and Bermuda Street		002057455FLE
Philadelphia, PA 19137	Sale	s Order No: 731945716
EPA ID#: PAD002312791		
Waste analysis data, where available, is attached		
Signature:	Print Name:	
Title:	Date: 6/11/02	8

Ple		print or type. (Form designed for use			of la Em	ergency Response	o Phone	4. Manifest			a. OMB N	0. 2050-003
1		BFURM MAZAKUUUS I	02312791	2. Page 1		.5) <b>533-3</b> :					79	FLE
١		Generator's Name and Mailing Address	UZGIZIJI	13		,		than mailing addres		TCO	I J	<u>'                                    </u>
1		unoco Chemicals			Goriore		(ii diiididii	indian indian ing decirco	``		3	
l	M	landaret and Bermuda St	reat	· · · · · · · · · · · · · · · · · · ·	SAN	Æ		¥,			~ •	
		hiladelphia, PA 19137		14,	1	-						
l		nerator's Phone:(215)807-844 ransporter 1 Company Name	2					U.S. EPA ID N	lumber			
		lean Harbors Environme	ntal Sendose Inc							222	3 5 0	*
l		ransporter 2 Company Name	INCES CONTRACTOR NEW					U.S. EPAID N		3222	600	
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l		Designated Facility Name and Site Addres	contin lun	many, In	۴.					110 3	1-1	/4
ı				-				U.S. EPA ID N	umber			
		lean Harbors El Dorado i. 09 American Circle	TC					ARD	0 6 9	7481	82	
ı		Dorado, AR 71730						1				
l	Faci	ility's Phone: (870) 86	3-7173			1		<del></del>				
l	9a.	9b. U.S. DOT Description (including to	Proper Shipping Name, Hazard C	lass, ID Number,		10. Conta	iners	11. Total	12. Un	1.	3. Waste Co	des
١	НМ	and Packing Group (if any))				No.	Type	Quantity	Wt.∕Vo	l		
ż	:	RQ, UN1993, WASTE	FLAMMABLE LIQUI	)S. N.O.S., (CUME	NE.					0001	U055	1
GENERATOR	×	WATER, DIRT), 3, PG I	(D001)		•	007	04	01170	P	F	1	
2	_					00 1	DM	02130	1			
Ž		2 RO. UN1992, WASTE	FLAMMABLE LIOUR	S. TOXIC. N.O.S.				1		D001	<b>J188</b>	
2	X	'RQ, UN1992, WASTE (PHENOL, CUMENE), 3	, (6.1), PG II (DOO1	)		0.2		20.525	P		+	<del>- </del>
l		·				013	DM	94535	r			
l		3 UN3175, WASTE SOL	IDS CONTAINING FL	AMMABLE LIQUI	D.			1	Ì	<b>J002</b>	U055	J188
L	X	N.O.S., (CLIMENE, ACE	TONE), 4.1, PG II		•	042	- M	200	P		-	
ř						002	DM	00300	<u> </u>		<u> </u>	<u>.</u>
Г	T	4RO UN3110 WASTE	ORGANIC PEROXID	F TYPE F SOLID					_	D001	D003	<b>U096</b>
ŀ	×	"RQ, UN3110, WASTE (CUMENE HYDROGEN	PEROXIDE), 5.2, PO	H (D001)		004	M	00740	P		-	
l				•		001	P7 ·1	$\omega / \omega$	•			
l		Special Handling Instructions and Addition		· (1)			in	case of emer	dency	cell 215	533 90	00. Aak
l	13.	L37557 7x55	ERG#128	RECO 9/1			fo	r anvironmeni	ine led	<b>fineer</b> or	operatio	office and
l	13.	. <b>L37558</b> (3x55 . <b>L381597</b> 2x55	ERG#131 / ERG#133 /	1710914			94	parvisor.				
l		L38662 4x15	ERG4145	. , , , ,				0827	36			
ı	15.	GENERATOR'S/OFFEROR'S CERTIFIE	CATION: I hereby declare that the	ne contents of this consignment	ent are fully	and accurately de	scribed abo	ve by the proper shi	pping na	me, and are c	assified, pa	ckaged,
l	1	marked and labeled/placarded, and are Exporter, I certify that the contents of thi					tional geven	imental regulations.	Lexport	ehipment and	I am the Pr	imary
l		I certify that the waste minimization state					all quantity o	generator) is true.				
ı	10.	erator's/Offeror's Printed/Typed Name			Signature	No.	4-17		$\overline{}$			ay Year
ļ		MARK A. JWI	EITZER		_		W/F				6 115	69 E
3	16. I	International Shipments	mport to U.S.	Export fro	om U.S.	Portorel	ifrv/exit:					
	Trar	nsporter signature (for exports only):	nport to olo.	L. Port in	o,,,, o.o.	Date leav	•					
2	17. 1	Transporter Acknowledgment of Receipt of	Materials			Address of the State of State	~					
としているとのというと	Tran	specter 1 Printed/Typed Name	^		Signature	<u> </u>	)	101		M	onth Da	Year Year
	(	windon YY	'ays	i	G/z	wa		Vais	_	- 10	0 1/	) <i> 0</i> 7
É	Tran	sporter 2 Printed/Typed Name			Signature	1//	, _				onth Da	y Year
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Š	_	Discrepancy										
ŀ	18a.	Discrepancy Indication Space	Quantity	Туре		Residue		Partial Reje				ejection
			Quantity	∟ туре	'	Residue		Parliar Reje	Cuon		LIFURK	ejecuon
	l					Manifest Reference	e Number:					
=	18b.	Alternate Facility (or Generator)			·			U.S. EPA ID N	umber			
É	Facil	lity's Phone:						i				
3	18c.	Signature of Alternate Facility (or Genera	tor)							N	onth D	ay Year
Ċ	1									1	1	1
	19.1	Hazardous Waste Report Management Mo	ethod Codes (i.e. codes for haza	ardous waste treatment disco	osal, and m	ecycling systems)			-			
į	1.	Table 1 topol management	2.	adous waste acastrom, disp	3.	oyoling systems/		14.				
•		H040	"H040		" HO40	)		"HO	40			
	20 [	Designated Facility Owner or Operator: Ce	artification of receipt of bazardou	s materials covered by the	anifect ava	ent as noted in its	m 18a	1				
		purposed Marin	1	atchais covered by the m	Signature	/ "	108	U =		М	onth Da	av Yagen
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		== ( 0.00)   1041002 EUI	acino di o obsolete.					DESI	I AND I	-11 FACILII	A 1() (;E	NERATO

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Ī	ħ		ORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number PAD 0 0 2 3 1 2 7	791	22. Page 2 of 3		fest Tracking Nun 212579FLE		•		:
,		24. G	enerator's Name Sunoco Ch	ernicals		<u> </u>				, ,		
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	Ш	_	ransporter 3 Company Name	sladmenTAL.	Someres	T.M		U.S. EPAID N	_	2222	~0	
			ransporter Company Name		VERVICES	. To A see		U.S. EPA ID N				. 1
		27a. HM	27b. U.S. DOT Description (including Proper Ship and Packing Group (if any))	oping Name, Hazard Class, ID Nur	mber,	28. Contai	ners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	5
		x	5. RQ, UN3243, WASTE SOL N.O.S., (PHENOL, CHROME),	IDS CONTAINING TO: 6.1, PG II (KO22)		020	24	11220	a	K022		
		×	6. UN3243, WASTE SOLIOS	CONTAINING TOXIC		030	D/M	11375	<u></u>	V138		
			(CUMENE, PHENOL), 6.1, PG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		001	DM	00110	P			
		X	7. RQ, UN8243, WASTE SOL N.O.S., (PHENOL, CHROME),		XIC LIQUID,	001	DF	00390	ρ	K022		
	ENERATOR	x	8. UN3243, WASTE SOLIDS (CUMYL PHENOL, RAGS), 6.1	CONTAINING TOXIC I L, PG II	LIQUID, N.O.S.,	001	DM	250	P	K022		
	SEN		9. UN3243, WASTE SOLIDS (PHENOL), 6.1, PG II	CONTAINING TOXIC	LIQUID, N.O.S.,	001	DW		ρ	U138		
		X	10. RQ, UN3243, WASTE SO N.O.S., (CUMYL PHENOL, RA	LIDS CONTAINING TO GS), 6.1, PG II (KO22	DXIC LIQUID,	013	DM	01645	D	K022		
		X	11. RQ, UN2928, TOXIC SOL (CATECHOL), 6.1, (8), PG II	IDS, CORROSIVE, OF	RGANIC, N.O.S.,	001			P	NONE		
		X	12. UN3244, WASTE SOLIDS N.O.S., (SULFURIC ACID), 8,	CONTAINING CORR	OSIVE LIQUID,			00400	P	D002		
		×	13. MA3077, HAZARDOUS V	VASTE, SOLID, N.O.S	., (BENZENE), 9,	00	DF			D018		
1	V		44 50 1400 77 1474 800			001	un	00050				
		X	14. RO, NA3077, HAZARDO PG III (K022)	US WASTE, SOLID, N	.O.S., (NO22), 9,	010	DM	05020	P	D007 K022	D008	D010
1		5.1 6.1 7.1	L37556 3×57 RRG#151 V L37560 /×55 RRG#151 L37556 /×55 RRG#151 L37556 /×55 RRG#151 L37556 XS5 RRG#151	9.38669 10.CH1205	0 1335 ERG#15	51 /		CH127448 CH12057				t ryt
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25. Tran	sporter Company Name				U.S. EPAID N	iumber			
26. Tran	sporter Company Name				U.S. EPA ID N	lumber			
27a. 27	7b. U.S. DOT Description (including Proper Sh nd Packing Group (if any))	pping Name, Hazard Class, ID Number,	28. Contai	iners Type	29. Total Quantity	30. Unit	31.	Waste Codes	3
x i	5. NA3077, HAZARDOUS V	VASTE, SOLID, N.O.S., (BENZENE), 9,	1 100	1,000			0018		
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36. Haza 15.	rdous Waste Report Management Method Co . H040	des (i.e., codes for hazardous waste treatment, disposal, an	d recycling systems)			ı			
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Page: 1 of 5

MANIFEST	INFOR	MATION	******************		**********				
Gen	nerator:	Sunoco Cher	nicals			Manifest Tracking	Info.		
A	ddress:	Margaret and Philadelphia,	Bermuda Street PA 19137			002212579FLE			
EP	A ID#:	PAD002	312791		Sa	les Order No: 732363	862		
LINE ITEM	INFOR	MATION	********				*** 1 - 4 - 1 - 4 - 4 - 4 - 4 - 4 - 4 -		
Line Item:	Pa	ge No:	Profile No:	Treatability Group:		LDR Disposal Categor	y		
1.	1		L37557	NON-WASTEWA	TER 2 (This is subject to LDR.)				
EPA Waste	e Code			- <b>L</b>	EPA Wa	ste SubCategory			
D001		*****		400.00000000000000000000000000000000000		ignitable Liquids			
U055					NONE				
LINE ITEN	TINFOR	MATION			-L				
Line Item:	Pa	ge No:	Profile No:	Treatability Group:	*************	LDR Disposal Categor	y		
2.	1		L37558	NON-WASTEWA	TER	2 (This is subject to L.C	OR.)		
EPA Wast	e Code		·L		EPA Wa	ste SubCategory			
D001		<u> </u>	*************	4 4 4 7 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2	High TOC Ignitable Liquids				
U188					NONE				
44 44 6 4 P W 0 4 9 E 4			*********	LDR Chemical De	rta	40 20 14 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
			,		Underlying Hazardous	Constituents of	Contaminants Subject to		
Chemical		************		C	onstituents	Concern	Treatment		
ACETONE					Υ (	N	N		
ACETOPH	ENONE				Υ	N	N		
PHENOL LINE ITEM	TWEXE				Υ	. N	N		
Line Item:		ge No:	Profile No:	Trestability Group:		LDR Disposal Categor			
3.	1	ye 140.	L381597	NON-WASTEWA		2 (This is subject to LE	•		
J.	Ι'		1501597	HOIT-WAS I EWA	I EN	2 (This is subject to LL	ж.)		
EPA Waste	e Code	*******	- <b>L</b>	. L	FPA Wa	ste SubCategory	<u>*************************************</u>		
U002U056L					NONE		<b></b>		
LINE ITEM	INFOR	MATION			-i	*****			
Line Item:	Pa	ge No:	Profile No:	Treatability Group:		LDR Disposal Categor	<b>y</b>		
4.	1	-64 484 4844 444 444	L38662	NON-WASTEWA	TER	2 (This is subject to LC	)R.)		
EPA Waste	Code				EPA Wa	ste SubCategory	***********		
D001					Ignitables, except High TOC Liquids				
D003					Other reactives				
U096					NONE				



Page: 2 of 5

LINE ITEM	NFORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
5.	2	L37556	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
EPA Waste (	L	L		EPA Waste SubCategory			
K022				NONE			
LINETTEM	NFORMATION		PO 100, 400 1 140 4 16 1 14 14 16 16 16 14 14 14 14 14 14 14 14 14 14 14 14 14	.i	. AND BOOK AND DESCRIPTION OF THE SECTION OF THE RESCRIPTION OF THE HARD SECTION OF THE SECTION		
Line Item:	Page No:	Profile No:	Treatability Group:	<b></b>	LDR Disposal Category		
6.	2	L37560	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
EPA Waste	i			EPA W	aste SubCategory		
U188			a upā epa site ten kat ups 404 d 404	NONE	a ana kon ana anii anii afin qar qar ka an an a ana ana ana an a an a an a		
LINE ITEM	NFORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:	60 340 404 4 W	LDR Disposal Category		
7.	2	L37556	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
EPA Waste	Code	L		EPA W	aste SubCategory		
K022		+ + +	_ <u></u>	NONE			
LINE ITEM	NFORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
8.	2	CH12050	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA Waste SubCategory			
K022	4	+== = <del> </del>	2 8 - 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	NONE			
	NFORMATION						
Line item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
9.	2	38669	NON-WASTEWAT	TER	2 (This is subject to LDR.)		
EPA Waste	Code	<del></del>		EPA W	aste SubCategory		
U188		4H7-4		NONE	a e a a a e e e e e e e e e e e e e e		
	NFORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
10.	2	CH12050	NON-WASTEWAT	TER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA W	aste SubCategory		
K022			NONE				



Page: 3 of 5

LINE ITEM	NFORMATION						
Line Item:	Page No:	Profile No:	Trestability Group:		LDR Disposal Category		
12.	2	L39785	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA Wa	ste SubCategory		
D002			. <del></del>		Characteristic	444 - 44 - 444 - 44 - 44 - 44 - 44 - 4	
LINE ITEM!	NFORMATION		<del>,, ,,,</del>	************	44 6 PH 4 E E E E E E E E E E E E E E E E E E		
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry	
13.	2	CH127448	NON-WASTEWA	TER	2 (This is subject to L	DR.)	
EPA Waste	Code			EPA Wa	ste SubCategory		
D018			*	NONE		<del></del>	
***********			LDR Chemical D	ata:	**********		
				Underlying Hazardous Constituents	Constituents of	Contaminants Subject to Treatment	
Chemical			) 				
ANTHRACE				Y	N	N	
• •	NTHRACENE			Y	N	N N	
BENZO (A)				Y	N	N N	
, ,	FLUORANTHENE			Y	N	N N	
CHRYSENE	FLUORANTHENE			Y	N	N N	
FLUORENE				V	N	N N	
	2,3-C,D) PYRENE			V	N N	N	
NAPHTHALI				, ,	N N	N N	
PHENANTH				, , , , , , , , , , , , , , , , , , ,	N N	N	
TOLUENE	NEIVE			Ÿ	N N	N N	
·	AIXED ISOMERS)			Ÿ	N N	N	
	NFORMATION						
Line Item:	LDR Disposal Catego	ry					
14.	2	CH12057	NON-WASTEWA	TER	2 (This is subject to Li	DR.)	
EPA Waste	L			! EPA Wa	ste SubCategory		
D007				Toxicity Cherecteristic for Chromium			
D008				Toxicity Characteristic for Lead			
0040				Total to Observation to De Colonia			



Page: 4 of 5

K022	en ind Jentiuse			NONE			
NV22				1			
	************	***	LDR Chemical				
Chemical				Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment	
NICKEL				Υ	N	N	
PHENOL				Ý	N N	N N	
	INFORMATION	ma nee at a nee amu nama a.					
Line Item:	Page No:	Profile No:	Treatability Gro	up:	LDR Disposal Catego	ry	
15.	3	CH127448	NON-WASTE	WATER	ER 2 (This is subject to LDR.)		
<b>EPA Waste</b>	Code		<b>4</b>	EPA Was	ite SubCategory		
D018				NONE			
		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LDR Chemical	Data	**************************************		
Chemical	<del></del>			Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment	
ANTHRACE	NE			Y	N	N	
BENZ (A) AI	NTHRACENE			Y	N	N	
BENZO (A)	PYRENE			Y	N	N	
BENZO (B)	FLUORANTHENE			Y	N	N	
BENZO (K)	FLUORANTHENE			Y	N	N	
CHRYSENE				Y	N	N	
FLUORENE				Y	N	N	
• .	2,3-C,D) PYRENE			Y	N	N	
NAPHTHAL				Y	N	N	
PHENANTH	RENE			Y	N	N	
TOLUENE				Y	N	N	
XYLENES (A	MIXED ISOMERS)			Υ	N	N	



Page:5 of 5

Certification						
Pursuant to 40 CFR 2 Part 268.	268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 12. 13. 14. 15.				
This waste is not rest	ricted as specified in 40 CFR 268 Subpart D.	11.				
Waste analysis data Signature :	ENVIRON MENTAL ENGINERATE: 06/15/09.	) NEJTZEL				

670

739595507 Form Approved. OMB No. 2050-00 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 12922556 2. Page 1 of Generator ID Number UNIFORM HAZARDOUS **ウムひひご 23 1 1 7 9 1** ⊤80<del>07188-3710</del> 2 **WASTE MANIFEST** Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Sumoco Chernicale Margarst and Bornuda Street SAME. Philadulphia, PA 19137 Generator's Phone: (215) 90 7 8442 U.S. EPA ID Number 6. Transporter 1 Company Name MAD039322250 Clean Harbors Environmental Services Inc U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number Clean Harbors El Dorado LLC ARD069748192 309 American Circle El Dorado, AR 71730 (870) 863-71/3 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 9a. 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol. HM No. Type UN3243, WASTE SOLIDS CONTAINING TOXIC LIGHD, N.O.S., U188 0.20 DM 03109 P GENERATOR (CUMENE, PHENOL), 6.1, PG II X K022 RQ, UN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID. 013 D M 06552 ρ N.O.S., (CIMYL PHENOL, RAGS), 6. L. PG H (KO22) UN3243, SOLIDS CONTAINING TOXIC LIQUID, NO.5., 003 OM 00360 1/2002 P (PHENOL), 6.1, PG II DO 1.5 RO, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (BENZENE), 014 DM 08274 9, PG III (DO 18) 8x55 NJ07259 14. Special Handling Instructions and Additional Information erg | 151 2.0912050 1 1855 医物药毒素后套 3.1.30660 1985, 2755 **他的信仰**书后 083 1.00127448V 1795, 13855 ERC#171 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a spall quantity generator) is true. Generators/Offeror's Printed/Typed Name Year Month Day IANU 09 10 WE 17761 16. International Shipments 눌 Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials ransported Printed/Typed N 6 0 Transporter 2 Printed/Typed Name Signa 2 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection ■ Quantity Residue Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Year Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 2. HO40 <sup>4.</sup> 11040 H040 11040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Month Signature Day

Ple	ase pr	int or type. (Form designed for use on elite	(12-pitch) typewriter.) 732525277			0/5/2009		n Approved	. OMB No.	2050-0039
$\Lambda$	UNII	FORM HAZARDOUS WASTE MANIFEST	21. Generator ID Number	22. Page		fest Tracking Nu				
Н	1	(Continuation Sheet)	PAD002312791	2012	9029	22555FLE	<u> </u>			
	24. 0	Senerator's Name	ornicals .							/
	25. 1	Fransporter Company Name				U.S. EPA ID	Number			
Ш						110 554 15	Monthea			
	26. T	Fransporter Company Name				U.S. EPA ID	Number		,	
	27a. HM	27b. U.S. DOT Description (including Proper Sh and Packing Group (if any))		28. Contai No.	ners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	is .
$\ $	х	5, RQ, NA3017, HAZARDOU PG III (K022)	S WASTE, SOLID, N.O.S., (NO22), 9,	020	DW	12060	p	D007	0008	010
$\parallel$								K022	<u> </u>	
$\parallel$									ļ	<u> </u>
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GENERATOR									<del> </del>	<del> </del>
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	5,6	Special Handling Instructions and Additional Inform								
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Ή	33 T	ransporterAcknowledgment of Receipt of	Matariale							
12	Printe	ed/Typed Name	Signature	<del></del>				Me	onth Day	y Year
TRANSPORTER										
ANS	34, To	ransporterAcknowledgment of Receipt of ed/Typed Name	Materials Signature						onth Day	y Year
18		·	- Jognaturo	'						
₹	35. D	iscrepancy								
DESIGNATED FACILITY										
ATED	36. H	•	des (i.e., codes for hazardous waste treatment, disposal, and	recycling systems)			,			
ESIGN	13	110/10		L						
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# CleanHarbors ENVIRONMENTAL SERVICES\*

### Land Disposal Restriction Notification Form

Page: 2 of 2

Printed Date :Oct 07, 2009

LINE ITEM	NFORMATION			~ ~~		
Line Item:	Page No:	Profile No:	Treetability Grou	p:	LDR Disposal Catego	ry
5.	2	CH12057	NON-WASTEW	ATER	2 (This is subject to L	DR.)
EPA Waste	Code			EPA Was	ste SubCategory	
D007	,			Toxicity C	naracteristic for Chromiu	m ·
D008				Toxicity Cl	perecteristic for Lead	
D010				Toxicity C	naracteristic for Selenium	1
K022				NONE		
			LDR Chemical D	)ata		
Chemical				Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
NICKEL				Y	N	N
PHENOL		·		Υ	N	N
		<u>C</u>	<b>ertification</b>			Applies to Manifest Line Items
Pursuant to 4 Part 268.	0 CFR 268.7(a),	I hereby notify that	this shipment contain	s waste restri	cted under 40 CFR	1. 2. 4. 5.
This waste is	not restricted as	specified in 40 CFR	268 Subpart D.	# # # # # # # # # # # # # # # # # # #		[3.
Waste analys Signature : Title :	is data, where av	ENLINEER	Print Na	me	Mex Su 10/7/09	E:72E C.



Page: 1 of 2

Printed Date :Oct 07, 2009

MANIFESTIN	FORMATION							
General	tor: Sunoco Chi	emicais		Manifest Tracking Info.				
Addre		nd Bermuda Street 1,PA 19137		002922556FLE				
EPA ID	#: PAD002	312791		Sa	les Order No: 732525	i <b>297</b>		
LINE ITEM IN	FORMATION			********	***************************************			
Line item:	Page No:	Pratile No:	Treatability Graup		FAR Planeau Enlace	N		
1.	1	L37560	NON-WASTEWA	TER	2 (This is subject to Li	DR.)		
EPA Waste Co	.d			EPA Wa	ste SubCategory			
U188	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		**************	NONE				
LINE TEM IN	FORMATION			-i	as 40.00 aps 44 k mes sar on 4 m 4 h k			
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry		
2.	1	CH12050	NON-WASTEWA	TER	2 (This is subject to Li	DR.)		
EPA Waste Co	.i			EPA Waste SubCategory				
K022				NONE				
LINE ITEM IN	FORMATION		<b></b>	_L				
Line item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry		
4.	11	CH127448	NON-WASTEWA	TER	2 (This is subject to LI	DR.)		
EPA Waste Co	.i	l		FPA Wa	ste SubCategory			
D018				NONE				
### <b>####</b>			LDR Chemical Da	1	<b></b>			
4M + 40 0 42 M + 2+ 64 4 2 M	7			<b>Underlying</b>	Constituents	Contaminants		
				lazardous	of	Subject to		
Chemical			C	onstituents	Concern	Treatment		
ANTHRACENE			44 <b>4 4 6 6 6</b> 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Ϋ́	N	N		
BENZ (A) ANT	HRACENE			Y	N	N		
BENZO (A) PY				Y	N	N		
	UORANTHENE			Y	N	N		
BENZO (K) FLI	UORANTHENE			Y	N	N		
CHRYSENE					N	N		
FLUORENE				Y	N	N ,		
INDENO (1,2,3				Y	N	N '		
NAPHTHALENE Y N N								
PHENANTHRENE Y N N						N		
TOLUENE Y N						N		
XYLENES (MIX	(ED ISOMERS)		Y	N	N			

### Clean Harbors Manifest Addendum

### Page:1 of 1

Gen	erator ID Number:			Sales Order Number:
РΑ	D002312791	002922556FLE	7	732525297
\$	Sunoco Chemicals		-2 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
٨	Margaret and Bermud	la Street		
F	Philadelphia, PA1913	7		
	E Profile No.	Sight Clean and	19.000,00	Mach Coles
1.	L37560	PHENOL CONTAMIN	ATED TRASH	
		CH Container #	Customer Container #	
2.	CH12050	PHENOL RESIDUE S	OLIDS	
		CH Container #	Customer Container #	
3.	L38660	PHENOL FILTER	^	
		CH Container #	Customer Container #	
4.	CH127448	BENZENE CONTAM	NATED SOIL	
		CH Container #	Customer Container #	
5.	CH12057	BOILER BRICK AND	ASH	
		CH Container #	Customer Container #	

Form Approved. OMB No. 2050-0039

Dies	and wint as time (Form decigned for use on alite (12-nitch) typewriter)	732836603	SC PPW	3/5/20	10	6/ Form	Approved.	OMB No. 2	050-0039
†	UNIFORM HAZARDOUS 13 degrator ID Number 1 2 7 9 1	2. Page 1 of <b>2</b>	3. Emergency Response (800) 483-3	Phone 71.8	4. Manifest T	racking Nu		_	LE
	WASTE MANIFEST  5. Generator's Name and Mailing Address Sundo Chemicals		Generator's Site Address	(if different that			012	<u> </u>	<u></u>
	Margaret and Bermuda Street Philadelphia, PA 19137		SAME						
	Generator's Phone: (215) 807-8442								
	6. Transporter 1 Company Name Clean Harbors Environmental Services ins				U.S. EPA ID N	umber 039	3223	250	
	7. Transporter 2 Company Name			500 E 17	U.S. EPA ID N			2 /	
	8. Designated Facility Name and Site Address Glean Harbors & Derado LLC	Jervi las	Jahr.		U.S. EPA ID N		3 ah	230	_
4	309 American Circle				ARD	069	7481	.92	
	El Dorado, AR 71730 Facility's Phone: (870) 863-7173				L				
	9a. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class and Packing Group (if any))	, ID Number,	10. Contai No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code:	
	1. UN1993, WASTE FLAMMABLE LIQUIDS, N.	O.S., (CUMENE,	No.	туре	quanty	77127011	D001	U065	
GENERATOR	X WATER, DIRT), 3, PG II		06	ma	2463	P			
ENE	2 UNS175, WASTE SOLIDS CONTAINING FLA	mmable liquid,					UQ55		
9	x N.O.S., (CUMENE), 4.1, PG II		04	m	530	P			
	3. UN\$175, WASTE SOLIDS CONTAINING FLA N.O.S., (ACETONE), 4.1, PG II	MMABLE LIQUID,					D001	U002	
	X N.O.S., (ALEIONE), 4.1, PG II		Oi	חת	160	P			
	4. UN3110, WASTE ORGANIC PEROXIDE TYP (CUMENE HYDROGEN PEROXIDE), 5.2, PG	E F, SOLID,					D001	D003	0096
	X (COMERE HIDROGER PEROXIDE, 5.2, PG		04	DW	1003	P			
$\ $	14. Special Handling Instructions and Additional Information 1. L37557 ERG 128 3×5	-							
	2.CE215051	S							
$\ $	4. L38662 RRG 145 23  15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the control of the control	contents of this consignment a	re fully and accurately de	scribed above	by the proper shi	pping name	, and are cla	ssified, packa	aged,
	marked and labeled/placarded, and are in all respects in proper condition for Exporter, I certify that the contents of this consignment conform to the terms	of the attached EPA Acknowle	edgment of Consent.	$\cap$		Uf expect sh	ipment and I	am the Prima	ary
$\ $	I certify that the waste minimization statement identified in 40 CFR 262.27(a) Generator's/Offeror's Printed Typed Marin		rator) or (b) (if I am a small lature	all quantity ger	ierator) is true.		Mo	•	Year
Į.	Max A. Sweltzer  16. International Shipments			<del>\</del>			0	4   13	110
F	Import to U.S.  Transporter signature (for exports only):	Export from U	I.S. Port of er	, -					
RER	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Sign	ature	2			Мо	nth Day	Year
TR ANSPORTER	Transporter 2 Printed/Typed Name  MICHAEL C KNIGNT		Jas V	fel		·	Mo	14   13	13 Year
TRAN	Transporter 2 Printed/Typed Name	aign	nich	, KC	bush	14		'41 <i>]4</i>	110
1	18. Discrepancy			4					
	18a. Discrepancy Indication Space Quantity	Type `~	Residue		Partial Rej	ection		Full Reje	ection
  -	18b. Alternate Facility (or Generator)		Manifest Reference	e Number:	U.S. EPA ID N	lumber			
딩									
DESIGNATED FACILITY	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)						Mo	onth Day	Year
NAT	,								
SESIG	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous Natural Natura		and recycling systems)		[4. H	040	···		
<u>ا</u>									
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous m		est except as noted in Iter	m 18a	. / ;		/ Mg	nth / Day	Year
T,	DAKK DILLET		J. Cli	(( )	ILCL	4	<u> (1.'</u>	7 K(	1
EPA	A Form 8700-22 (Rev. 3-05) Previous editions are obsolete.		)		DES	GNATE	<b>FACILIT</b>	Y TO GEN	<b>IERATOR</b>

Plea	išė p	nt or type. (Form designed for use on e	Hite (12-pitch) typewrit	er) <b>732836603</b>	22. Page		3/5/2010 Test Tracking Num		Approved	. OMB No.	2050-003
	*."	(Continuation Sheet)		2312791	2 of 2	003	03 <b>8729</b> FLI			. 3	
	24. G	enerator's Name Sunoco	Chemicals			•					**
				· .		•	U,S. EPA ID N	lumber			
	25. 1	ransporter Company Name	- Darl	on Eno Se		)	TWK	DO	393	22	220
	26. T	ransporter Company Name					U.S. EPAID	iumoei -		<b>3</b> 00 - 1	والمراجعة المراجعة ا
	27a. HM	27b. U.S. DOT Description (including Prope and Packing Group (if any))	er Shipping Name, Hazan	d Class, ID Number,	28. Contai	ners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	8
	×	5. UN3243, WASTE SOLI	DS CONTAININ	G TOXIC LIQUID, N.O.S.,		7,50		7	U188		
	•	(CUMENE, PHENOL), 6.1,	, MG II	4.4	21	MC	5776	P			
	X	6. UN3243, WASTE SOLI (PHENOL), 6.1, PG II	OS CONTAININ	G TOXIC LIQUID, N.O.S.,					U188		
					02	MC	635	P			
	×	7. UN2930, WASTE TOXI N.O.S., (ACETONE, PHEN	C SOLIDS, FLA IOL), 6.1, (4.1).	MMABLE, ORGANIC, PQ II					D001	F003	
				•	06	DM	522	P			
<b>LTOR</b>	×	8. UN3243, WASTE SOLI (CUMYL PHENOL, RAGS)	DS CONTAININ , 6.1, PG II	Q TOXIC LIQUID, N.O.S.,				P	K022		
GENERATOR					10	DM	3236	P			
<u> </u>	×	-9. UNSA46, WASTE SOLI -(QUMENE, PHENOL), 6.1.	PG.11. 713	TORGERON AND AND AND AND AND AND AND AND AND AN	_ATB_	20	178	ar	ULBO	73	n garusti r
		10. UN2810, WASTE TO	KIC LIQUIDS O	RGANIC NOS (PHENOI	1 / 5	/		<u> </u>	K022		
	X	ACETOPHENONE), 6.1, P	G II			m	100-0	P	1022	,	
		11. UN3264, WASTE CO	RROSIVE LIQUI	D. ACIDIC. INORGANIC.	28	ייען	10800		D002	1	
$\downarrow$	, <b>X</b>	N.O.S., (SULFURIC ACID),	8, PG III			DF	1952	P			
	_	12. NASOTT, HAZARDOL	S WASTE, SOL	JD, N.O.S., (LEAD,	04	UP «			D007	D008	
N	^	CHROMIUM), 9, PG III			01	Dm	313	(J)	ļ		
		18. RQ, NASO77, HAZAR	DOUS WASTE,	SOLID, N.O.S., (KO22), 9		s.			D007	D008	D010
	×	PG III (KO22)			01	DM	313	P	K022		
X	<b>X</b>	14. RO, NA3077, HAZAR 9, PG H (D018)	DOUS WASTE,	SOLID, N.O.S., (BENZENE	•		, ø		D018		
	20.0	pecial Handling Instructions and Additional In			101 -	DM	980	P			
<b>\</b>	5. 6. 7. 8.	L37560 ERG#1512am 38669 ERG#1512x 6LID-013 ERG#1346> CH12050 ERG#15110>	S   429-1375   5   14 10.137     SS   11.139   SS   12.611	556 ERG#153 28 15	13.CH1 5 14.CH1		ERG#171 ERG#171			*	
ZER	33. Tr Printe	ansporterAcknowledgment of Recei	pt of Materials	Signature	) ~ /	00			Мо	nth Day	
SPO	34 Tr	ansporter Acknowledgment of Recei	SOHOGE	JAPOHES) C	XXX	Lly	<del>~~~~</del>		(	4121	1/0
TRANSPORTER		d/Typed Name		Signature			-	: .	Mo	nth Day	Year
	35. Di	screpancy		<u></u>		2					<u> </u>
DESIGNATED FACILITY		••• •					د	4	i.		
ED F.	36 H	ızardous Waste Report Management Methor	Codes (i.e. codes for h	azamous waste treatment dienced and	recording exeterne)	· .	· · · · · · · · · · · · · · · · · · ·				-/
GNA		I	HO40	7. HO40	(Coyoling Systems)	8. H04	)		2.H04	50	A
DES	1	0.H040   1	L. H141	12.H141	1	13. HO	10		14. HO	10	



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MANIFEST INF	ORMATION	**************		**********			
	r: Sunoco Chem	nicals			Manifest Tracking Info.		
Addres	14	Bermuda Street	İ		003038729FLE		
Addres	Philadelphia,F						
EDA ID	#. <b>D</b> ADOOO	40704		Sal	es Order No: 732836603		
EPA ID		12/91	i.	Jai			
Line Item:	Page No:	Profile No:	Treatability Group:	p: LDR Disposal Category			
	[4	L37557	NON-WASTEWAT		2 (This is subject to LDR.)		
1.	•	L3/33/	NON-WAOTEWAT		2 (11110-10 000)000 to 2511.)		
EPA Waste Co	L de	L	.L	EPA Wa	ste SubCategory		
D001				f	Ignitable Liquids		
U055				NONE			
LINE ITEM INF	ORMATION			·			
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
2.	1	CH215051	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
		<u> </u>	<u> </u>				
EPA Waste Code EPA Waste SubCategory							
U055 NONE							
LINE ITEM INF		~~~~~~~~					
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
3.	1	L38659	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
	i L	i L	<u> </u>				
EPA Waste Co	<u>de</u>				ste SubCategory		
D001				"	Ignitable Liquids		
U002				NONE			
LINE ITEM INF	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
	 	i	NON-WASTEWAT		2 (This is subject to LDR.)		
4.	1	L38662	INON-WASTEWAT	EK	2 (This is subject to LDR.)		
EPA Waste Co	L de	L	-L	FPA Wa	lste SubCategory		
D001				£	, except High TOC Liquids		
D003				Other read			
U096				NONE			
LINE ITEM INF	ORMATION			.L			
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
5.	2	L37560	NON-WASTEWAT	ER	2 (This is subject to LDR.)		
EPA Waste Co	de			EPA Wa	ste SubCategory		
U188				NONE			

# CleanHarbors ENVIRONMENTAL SERVICES

### Land Disposal Restriction Notification Form

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ENVIRONMENTAL SERVICES*							
LINE ITEM INF			T		11000		
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
6.	2	38669	NON-WASTEWATER		2 (This is subject to LDR.)		
EPA Waste Co	de	.h	h	EPA Wa	ste SubCategory		
U188				NONE			
LINE ITEM INF	ORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
7.	2	6LID-013	NON-WASTEWATER 2 (This is subject to LDR.)		₹.)		
EPA Waste Co	de	-L	EPA Waste SubCategory				
D001				High TOC Ignitable Liquids			
F003 NONE							
			LDR Chemical Dat	a			
U H			nderlying azardous instituents	Constituents of Concern	Contaminants Subject to Treatment		
ACETONE				N	Υ	N	
PHENOL				Y	N	N	
LINE ITEM IN	ORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
8.	2	CH12050	NON-WASTEWAT	ĒŔ	2 (This is subject to LDR.)		
EPA Waste Code				EPA Waste SubCategory			
K022				NONE			
LINE ITEM IN	ORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
	†	1	TEWAT	CD.		1.7	
					<u> </u>		
EPA Waste Code EPA Waste SubCategory							
100				NONE		<i></i>	
LINE ITEM INF			P		1-122		
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
10.	2	L37556	NON-WASTEWAT	ON-WASTEWATER 2 (This is subject to LDR.)		₹.)	
EPA Waste Code				EPA Waste SubCategory			
					NONE		



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LINE ITEM INFORMATION								
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category			
11.	2	L39785	NON-WASTEWATER		2 (This is subject to LDR.)			
EPA Waste Code					EPA Waste SubCategory			
D002					Corrosive Characteristic			
LINE ITEM INFORMATION								
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category			
12.	2	6LID-002	NON-WASTEWATER		2 (This is subject to LDR.)			
EPA Waste Code EPA Waste SubCategory								
D007				Toxicity Characteristic for Chromium				
D008	<b>)8</b>			Toxicity Characteristic for Lead				
LINE ITEM INF								
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category			
13.	2	CH12057	NON-WASTEWAT	ER	2 (This is subject to LDF	R.)		
EPA Waste Code EPA Waste SubCategory								
D007				Toxicity Characteristic for Chromium				
D008			Toxicity Characteristic for Lead					
D010				Toxicity Characteristic for Selenium				
K022 NONE								
LDR Chemical Data								
			Ha	nderlying azardous	Constituents of	Contaminants Subject to		
Chemical			Co	nstituents		Treatment		
NICKEL				Y	N	N		
PHENOL LINE ITEM INF	ORMATION			Y	N	N		
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category			
14.	2	CH127448	NON-WASTEWATER		2 (This is subject to LDR.)			
,	_	02.				··/		
EPA Waste Code EPA Waste SubCategory								
D018 NONE								



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LDR Chemical Data						
Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment			
ANTHRACENE	Υ	N	N			
BENZ (A) ANTHRACENE	Y	N	N			
BENZO (A) PYRENE	Y	N	N			
BENZO (B) FLUORANTHENE	Y	N	N			
BENZO (K) FLUORANTHENE	Y	N	N			
CHRYSENE	Y	N	N			
FLUORENE	Υ	N	N			
INDENO (1,2,3-C,D) PYRENE	Υ	N	N			
NAPHTHALENE	Υ	N	N			
PHENANTHRENE	Y	N	N			
TOLUENE	Υ	N	N			
XYLENES (MIXED ISOMERS)	Y	N.	N N			
Certification			Applies to Manifest Line Items			
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment cor Part 268.	ntains waste restric	ted under 40 CFR	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.			
Waste analysis data where available is attached.  Signature: Print  Title: Date	Name	13/10.				

/32985810 SC PPW 6/4/2010 Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 2. Page 1 of 3. Emergency Response Phone (800) 488-3 (14) 4. Manifest Tracking Number 0033952 1. Generator ID Number UNIFORM HAZARDOUS PAD002312/91 **WASTE MANIFEST** Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) ideo ine rgaret and Bermude Street ladelphia, PA 19137 SAME Generator's Phone: (215) 807-8442 Transporter 1 Company Name U.S. EPA ID Number Clean Harbors Environmental Services Inc MAD039322250 7. Transporter & Company Name U.St EPA ID Numbe 8. Designated Facility Name and Site Add U.S. EPA ID Number ian Harbora til Vorado LLC ARD0**69748192** 309 American Circle El Dorado, AH /1/30 (8/0)843-/1/3 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM Quantity Wt./Vol. No. Type UN1950, WAS IE AEROSOLS, 2.1 F005 D001 GENERATOR X 01 55 UN1000-WASTE FLAMMABLE LIQUIDS, N.O.D.; (AGETONE; 1004 IMMIG 1117 PHENOL), S, PO II 117 UN1998, WAS IE FLAMMABLE LIQUIDS, N.O.S., (CUMERE, D001 UQ55 WATER, DIRT), S, PG II X 125 DMΟŀ D001 ULUE RQ, UN1992, WASTE FLAMMABLE LIQUIDS, TOXIC, N.O.S., 12 5980 (PHENOL, CUMENE), 3, (0.1), PG H (D001) DM 14. Special Handling Instructions and Additional Information 1.CH345691 ERG#126 | x55 220143-113 erg#128 KRG#128 1455 3.L37557 4.137558 ERG#131 13-95 12 15 0m 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledge ent of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of (b) (if I am a small qua Generator's/Offeror's Printed/Type Name Day DWE ITLER 28 2010 16. International Shipments Ē import to U.S. Export from U.S. Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Month Yea 10 2 Discrepancy 18a. Discrepancy Indication Space \_\_\_ Type Partial Rejection Full Rejection ☐ Quantity Residue Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous wasta treatment, disposal, and recycling systems) **H040 H040** H040 H040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 16a rinted/Type EPA Form 8700 22 (Rev. -05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR 2017010

GENERATOR

**5. HU4U** 

10. HU40

55

160 - P	rm decimed for use on allt-	732565810	30	PPW 6	/4/2010	For	m Approved	d, OMB No.	2050-003
NIFORM HAZAR	m designed for use on elite DOUS WASTE MANIFEST		22. Page	9	fest Tracking Nun		III Appioved	S, CIVID IVU.	2000-000
(Continue). Generator's Name	nuation Sheet)	PAU002312/01	2 of 2	down	9521UHLE				
Generator 5 Hank	Suncee In	•		* * *					
	·				110 50410 1				
Transporter 3	Company Name	INN HAMBURS ENU, SERV	ICES		U,S. EPA ID N		3222	50	
Transporter 💾	Cmbany Name	1 1 1			U.S. EPA ID N	Number		4 3 27	
	Clean C	about Enu. Soull	رو		IMAI	بريه	433	4720	/
a.   27b. U.S. DOT and Packing G		hipping Name, Hazard Class, ID Number,	28. Conta No.	iners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	. Waste Code	s
6. VN20		IAMEL BOLIUS, COMPOSIVE, OHIIAMIC,					2001	0003	13
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10. UNI	243, wasie Suli e, prenol), 6.1, p	28 CONTAINING TOXUC LIQUID, N.O.S., 2 H					U188	• <del>2</del> pi 1 - 476	* ************************************
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11. UN2	810, WASTE TOXIC HENOME), 8.1, PQ I	LIQUIDS, ORGANIC, N.O.S, (PHENOL,					NU22		
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12. UN2	810. WASTE TOXIC	LIQUIDS, ORGANIC, N.O.S. (PHENOL.				mar.	N022		
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nted/Typed Name		Signature	1 111	1				onth Day	
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5. HU40

13. H141

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

14. H141

9. HU40

7. H040

12. HU40

6. H040

11. H040



Page: 1 of 4

Printed Date :Jul 28, 2010

MANIFEST	NFORMATION		e 1112 au 2 820 dec 244 265 261		92 3240 400 200 200 200 ANT HER	202 CERT 100 HAR SEE BOT 101 TEL
	rator: Sunoco In	ċ			Manifest Trackin	g Info.
	kass. Margaret a	and Bermuda Street la,PA 19137			003395210FLE	
EPA		2312791		Sa	les Order No: 732985	5810
	NFORMATION					
Line item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Catego	xy
1.	1	CH345691	NON-WASTEWA	TER	2 (This is subject to L	DR.)
EPA Waste	L Code			EPA We	i ste SubCategory	
D001				ignitables	except High TOC I iquid	in .
F005				NONE		Ĭ.
	, <u>, , , , , , , , , , , , , , , , , , </u>		LDR Chemical D	ata		
•				Underlying Hazardous	Constituents of	Contaminants Subject to Treatment
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Line item:	Page No:	Profile No:	Treatability Group	[	LDR Disposal Catego	xy
3.	1	L37557	NON-WASTEWA		2 (This is subject to L	DR.)
EPA Waste	Code			EPA Wa	!ste SubCategory	
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U055				NONE		
LINE ITEM I	NFORMATION					
Line Item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Catego	ry
4.	1	L37558	NON-WASTEWA	TER	2 (This is subject to L	DR.)
EPA Wasie (	<del>1</del>			EPA W	sie SubCelegory	
D001					Ignitable Liquids	



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	HIAL SERVICES	r 				
J188				NONE		
			LDR Chemical Da	rta		
Chemical			1	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
CETONE				Y	N	N
CE I OPHEI	NONE			Y	N	N
HENOL	NFORMATION			Y	N	N
ine item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry
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	NFORMATION					
ine Item:	Page No:	Profile No:	Treetability Group:		LDR Disposal Catego	Гу
<b>3</b> .	2	38669	NON-WASTEWA		2 (This is subject to L	DR.)
EPA Waste (	ode	L		EPA Wa	ste SubCategory	
J188				NONE		
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ine item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry
7.	2	CH12050	NON-WASTEWA	TER	2 (This is subject to L	DR.)
EPA Waste (	Code			EPA W	ste SubCategory	
(022				NONE		
LINE ITEM	NFORMATION					
ine Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry
PA Waste (	Code			EPA Wa	ste SubCategory	
				MONE		
			LDR Chemica D	ata .		
Chambal				Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
Chemical Phenol				Y		N
THE ICH				T	N	14



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Printed Date : Jul 28, 2010

LINE ITEM	NFORMATION				
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ine Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
10.	2	L37580	NON-WASTEWAT	ER	2 (This is subject to LDR.)
EPA Waste	Code			EPA W	ste SubCategory
U188				NONE	
LINE ITEM	NFORMATION				/un and 4 and 7 km and 200 and 200 and 200 cm 50h part 607 475
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
11.	2	L37556	NON-WASTEWAT	ER	2 (This is subject to LDR.)
EPA Waste (	Code			<i></i>	este SubCellegory
K022				NONE	
	NFORMATION				
Line fiem:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
12.	2	L37556	NON-WASTEWAT	ER	2 (This is subject to LDR.)
EPA Waste (	Code	L		EPA W	uste SubCategory
K022			*	NONE	
LINE ITEM I	NFORMATION			i	***************************************
Line Itam:	Page No:	Profile No:	Treetability Group:		LDR Disposal Category
13.	2	L38661	NON-WASTEWAT	ER	3 (Alternate Debris Standard)
EPA Weste (	LCode			EPA W	Jete SubCategory
0002				<i></i>	Cheracteristic
LINETTEM	NFORMATION -			L	
ine Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
EPA Waste (	code	**************************************		EPA W	este SubCategory



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Printed Date :Jul 28, 2010

<u>Certification</u>	Applies to Manifest Line Items
Pursuent to 40 CFR 288.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1. 3. 4. 7. 6. 7 10. 11. 12.
This hazardous debris is subject to the Alternate Treatment Standards of 40 CFR 268.45.	13.
Waste analysis data where available is attached.  Signature:  Frint Name  O7 28 2010 .	/ TZEC

yes a

6304

SC PPW 7/14/2010 Form Approved. OMB No. 2050-0039 733107194 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Number 1 Tracking Number 003397416 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS **WASTE MANIFEST** (800)483-3718PAD002312791 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address iunoeo inc Margaret and Bermude Street Philedelphia, PA 19137 SAME Generator's Phone: (348) 807.8442 6. Transporter 1 Company Name U.S. EPA ID Number Clean Harbors Environmental Services Inc 4AD039322250 7. Transporter 2 Company Name CLEAN HARBORS ENU, SERVICES MAD 039322260 8. Designated Facility Name and Site Address U.S. EPA ID Number Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730 ARD069748192 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol. НМ Туре UN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., U188 GENERATOR (PHENOL) 6.1. PG II X 40 m 16 110 K022 UN2248. WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., (CUMYL PHENOL, PHENOL), 6.1, PQ II 5 DM 2750 UN2810, WASTE TOXIC LIQUIDS, ORGANIC, N.O.S. (PHENOL, **KO22** ACETOPHENONE), 6.1, PG II X 12 )M 8 680 **U188** UN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., (CUMENE, PHENOL), 6.1, PG II 15 J)W 1350 14. Special Handling Instructions and Additional Information .38669 ERG#151 40×55 ERG 151 g x sc 2.CH12050 3.137556 ERG#153 11 x 55 T37560

ENGISE 15755

GENERATOR'S/OFFEROR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Year 10 Port of entr /exit: E Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Month Year Transporter 1 Printed/Typed Name Day 09 29 10 rinted/Typed Name 04 10 ĸ IC HAE! Discrepancy Туре 18a. Discrepancy Indication Space Quantity Full Rejection Residue Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) **H040 H040 H040** 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed Typed Name Signature EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

ase p	print or type. (Form designed for use on elite	(12-pitch) typewriter.) <b>733107194</b>	22. Page	C PPW 7	//14/2010 fest Tracking Nur	For	n Approved	I. OMB No	. 2050-00
UNI	IFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	PAD002312791	22. Page 2 of 2		197416FLE				
24.	Generator's Name Sungeo In		1 2012	1 400.	1 1 1 1 1 1 1	•			
25.	Transporter 3 Company Na/ve/	11.1 6	Out in		U.S. EPA ID I		360	100	
26	Transporter Company Name	Alabors Sew	PILLU	)	U.S. EPA ID	Number	3530	120	<u>νυ</u>
20.	Transporter Company Name		* * * * * * * * * * * * * * * * * * *						
27а. НМ		ipping Name, Hazard Class, ID Number,	28. Conta	iners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	es
x	S. RQ, NASO77, HAZARDOL	is waste, solid, N.O.S., (K022)	. 9,				D007	D008	D010
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32. 5	Special Handling Instructions and Additional Inform	ation				<u> </u>			
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33. T	Transporter Acknowledgment of Receipt or ted/Typed Name		gnature			/	Мо	nth Da	v Yea
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ა <b>ე</b> . D	Discrepancy				. **				
36. H	4						g 1857		
36. H	Hazardous Waste Report Management Method Co	des (i.e., codes for hazardous waste treatment, dispose	al, and recycling systems)		W				
	5. HO40				<del></del>				
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Printed Date: Sep 27, 2010

Page: 1 of 2

MANIFEST INFORMATION Manifest Tracking Info. Generator: Sunoco Inc Margaret and Bermuda Street 003397416FLE Address: Philadelphia,PA 19137 Sales Order No: 733107194 EPA ID #: PAD002312791 LINE ITEM INFORMATION Line Item: Page No: Profile No: Treatability Group: LDR Disposal Category 38669 NON-WASTEWATER 2 (This is subject to LDR.) **EPA Waste SubCategory EPA Waste Code** U188 NONE LINE ITEM INFORMATION Treatability Group: LDR Disposal Category Line Item: Profile No: Page No: NON-WASTEWATER 2 (This is subject to LDR.) CH12050 **EPA Waste SubCategory EPA Waste Code** K022 NONE LINE ITEM INFORMATION Profile No: Treatability Group: LDR Disposal Category Line Item: Page No: 3. L37556 NON-WASTEWATER 2 (This is subject to LDR.) **EPA Waste Code EPA Waste SubCategory** K022 NONE LINE ITEM INFORMATION LDR Disposal Category Line Item: Page No: Profile No: Treatability Group: 4 L37560 NON-WASTEWATER 2 (This is subject to LDR.) **EPA Waste Code EPA Waste SubCategory** U188 NONE LINE ITEM INFORMATION Treatability Group: Line Item: Page No: Profile No: LDR Disposal Category 5. CH12057 NON-WASTEWATER 2 (This is subject to LDR.) **EPA Waste Code** EPA Waste SubCategory D007 Toxicity Characteristic for Chromium **B000 Toxicity Characteristic for Lead** D010 Toxicity Characteristic for Selenium



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Printed Date: Sep 27, 2010 NONE K022 LDR Chemical Data Underlying Contaminants Constituents Hazardous Subject to of Treatment Constituents Concern Chemical NICKEL Ñ N **PHENOL** Υ N N Applies to Certification Manifest Line **Items** Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR 1. 2. 3. 4. Part 268. Waste analysis data, where available, is attached. Adrienne Blanchard Signature: **Print Name** Title: Date:

5147

Plea		nt or type. (Form design			ter.)			30 PP W	*/ */			Approved.	OMB No. 2	050-0039
1	W/	FORM HAZARDOUS ASTE MANIFEST		nber 2312/9	1.	2. Page 1 of <b>1</b>				4. Manifest T	391	760	8 F	LE
	5. Ger	nerator's Name and Mailing	g Address			(	Generator's	Site Address	if different th	an mailing address	3)			
	Gener	History and Ser History Phone: (215)	19137 807-8442	•			SAM							
П	6. Trai	nsporter 1 Company Name	9							U.S. EPA ID N	umber			
		Jean Harbora En		Services ind								3222	150	
	7. Trai	nsporter 2 Company Name	е							Ú.S. EPA ID N	umber			
Н	8. Des	signated Facility Name and	d Site Address							U.S. EPA ID N	umber			
	34	lean Herbors til 09 American Cl	rcle							ARD	069	7481	.92	
Ш		tice Phone:	. 1 30 18 10 1882	1.73										
	9a.	9b. U.S. DOT Description	on (including Proper		rd Class, ID Number,			10. Contair	ners	11. Total	12. Unit	13 \	Waste Codes	
	нм	and Packing Group (if a	ny))					No.	Туре	Quantity	Wt./Vol.	,0.	7744510 0000	
GENERATOR -	×	CHMFNF HY			17Pk F. SOL . PG II	IV,		200	ůΜ	00800	ρ	1000	D003	U096
- GENE	×	2. IMS245, WA (CUMYL PHE			s toxec richi	O, N.O.S.,	,	001	D M	00300	P	M0.33		
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		GENERATOR'S/OFFERO marked and labeled/placan Exporter, I certify that the c I certify that the waste mini	rded, and are in all re contents of this consi	espects in proper con-	lition for transport acci e terms of the attache	ording to applicated to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control	able internated	tional and nati Consent.	onal governin	nental regulations.	pping name If export sh	e, and are classifications and I	ssified, packa am the Prima	aged, ary
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Ĭ	16. Int	ternational Shipments	import to	u.s.		Export from U	J.S.	Port of en						
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≥	18b. A	Alternate Facility (or General	ator)				Man	fest Reference	number:	U.S. EPA ID N	lumber			
DESIGNATED FACILITY														
O.F.		y's Phone:	ih. (or Corporator)									140	inth Day	Year
ATE	16C. S	Signature of Alternate Facili	ny (or Generator)									1	onth Day	l
<u> </u>	19. Ha	azardous Waste Report Ma	anagement Method	Codes (i.e., codes for	hazardous waste treat	tment, disposal,	, and recycl	ing systems)						
岩   -	1.	HU40		<sup>2.</sup> 17040		3.	H040			4. H	141			
$\  \ $	20. De	esignated Facility Owner or	r Operator: Certificat	ion of receipt of haza	rdous materials covere	ed by the manife	est except a	as noted in Iter	n 18a					
$\  \ $	Printe	d/Typed Name				Sigr	nature					Мо	nth Day	Year
[ <del>↓</del>													i	



Page: 1 of 1

Printed Date :Oct 13, 2010

MANIFES IN	FORMATION	#20 3 CT 2 CC 2 C HHO 900 BY	ie nas 232 240 bpc okt nota 292 2		1 220 2202 Her 244 her 546 260 Can ber	# 2000 and 200 062 hay 254 es				
Genera	tor: Sunoco Inc	C			Manifest Tracking	info.				
Addre		ind Bermuda Street ia,PA 19137			003917608FLE					
EPA IC	#: PADOO	2312791		S	ales Order No: 6331342	04-002				
LINE ITEM IN	FORMATION					u saus es a ess ses es es				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Dieposel Category	Y				
1.	1	L38662	NON-WASTEWA	TER	2 (This is subject to LD	R.)				
EPA Weste Co	ode			EPA W	aste SubCategory					
D001				Ignitable	s, except High TOC I iquids					
D003				Other re	actives					
U098				NONE						
LINE ITEM IN	FORMATION									
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category	,				
2.	1	CH12050	NON-WASTEWA	TER	2 (This is subject to LD	R.)				
EPA Waste Co	vie			EPA W	wsie SubCalegory					
K022				NONE						
LINE ITEM IN	FORMATION	70 4 4 40 600 62 4 0 4 4 0 5 50 40	2 6 5 6 4 10 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	*****	. 202 2440 444 202 202 204 207 204 4b	<u> </u>				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category					
4,	1	CH462802	NON-WASTEWA	TER	2 (This is subject to LD	R.)				
EPA Waste Co	ode			EPA W	aste SubCategory					
D002				Corrosiv	e Characteristic					
D008				Tooloity	Characteristic for Lead					
		Ce	<b>ntification</b>			Applies to Manifest Line Name				
Pursuant to 40 Part 268.	CFR 268.7(a), I	heroby notify that t	his shipment contains	wasto rest	tricted under 40 CFR	1. 2. 4.				
This waste is n	ot restricted as s	pecified in 40 CFR	268 Subpart D.		****************	3.				
						•				
	_		)							
Waste analysia	data, where ave	Sable, in attached.	Print Name	<b>0</b>	MARY A. Sw	E172Ez				
-		1								
i itie :	tto: ENGINEER Dato: 10/13/10.									

Plea	ase prin	nt or type. (Form desi	gned for use on elit	e (12-pitch) typewriter.)	3324 /600		34 FFW	TA/ 50/			Approved.	OMB No.	2000-0039
1		ORM HAZARDOUS	1. Generator ID Nur	nber 2312791	2. Page 1 c		rgency Response		4. Manifest T		294	7 F	LE
	5. Ger	nerator's Name and Mail				Generat	or's Site Address	(if different th	an mailing address	s)			
	Ma	noco inc argorat and ile allacielphia, PA ator's Phone: (215)	19137			SAN	1 E						
		nsporter 1 Company Na							U.S. EPA ID N				
		een Harbors Ei		Services Inc							3222	160	
	7. Trar	nsporter 2 Company Na	me						U.S. EPA ID N	umber			
	8. Des	signated Facility Name a	nd Site Address		-,				U.S. EPA ID N	umber			
	30 El	ean Harbors El 9 American C Dorado, AR 71 ys Phone:	rele 1730						ARB	069	7481	.92	
	$\vdash$	Í -	(870)863-7	Shipping Name, Hazard Class, ID	Number		10, Conta	iners	11. Total	12. Unit			
	9a. HM	and Packing Group (if		Shipping Harrie, Hazard Glass, ID	riamoon,		No.	Туре	Quantity	Wt.Vol.	13.	Waste Code	s
l	$\vdash$	Luciana		ABLE LIQUIDS, N.O.S	LA OFTIONE	A17)					D001	11000	<del>U056</del> -
GENERATOR	X		PG-II, (GC-VIV		, ( <del>) •••••</del> ;	ער					1000	W	0000
岁		2						<del> </del>			D001	D003	11096
넁 l	UN3110, WASTE ORGANIC PEROXIDE TYPE F, SOLID, (CUMENE HYDROGEN PEROXIDE), 5.2, PQ II									i,	1001	CVV4	- ACAM
1	$\vdash$	3		444444444444444444444444444444444444444	110140 110		<del>                                     </del>	<del>                                     </del>			11400		
	WIN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., (PHENOL), 6.1, PG II									15	U188		
		4.				<del></del>		†			K022		
TUN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., (OUMYL PHENOL, PHENOL), 6.1, PG II										ь	1022		
١.	14. Sr	pecial Handling Instruction	ons and Additional Info	mation			·		·				<u> </u>
	3.	138662 138669	ej Ej	101128/F 101145 E XXX 101151 38X \$5				- spending.					
	15. 0		OR'S CERTIFICATIO	N: I hereby declare that the contespects in proper condition for tran									
	1	Exporter, I certify that the certify that the waste m	contents of this consi inimization statement	gnment conform to the terms of the dentified in 40 CFR 262.27(a) (if the second continued in 40 CFR 262.27(b) (if the second continued in 40 CFR 262.27(b))	ne attached EPA Ackn I am a large quantity g	owledgmen generator) o	t of Consent. r (b) (if I am a sm	nali quantity ge	enerator) is true.				
	Gener	ator's/Offeror's Printed/I	yped Name Blanch	ard	1	Signature	uny)	Blow	cokard	•	Mo	nth Day 2   2 2	
F	16. Int	ernational Shipments	import to	U.S.	Export fro	γ.	-	entry/exit:			-		
		porter signature (for exp		nla.			Date lea	ving U.S.:					
E	Transr	ensporter Acknowledgme porter 1 Printed/Typed N	<u>-</u>	dis		Signature	4				Мо	nth Day	Year
ğ	13	tde 15			1	\ <i>*</i>	YAA				11		
TR ANSPORTER	Transp	porter 2 Printed/Typed N				Signatur	-				Мо	nth Day	Year
ĸ						,							
1	-	screpancy											
	18a. D	Discrepancy Indication Sp	pace Quant	ity 🔲	Туре	[	Residue		Partial Rej	ection		Full Rej	ection
<u>-</u>	19h ^	Itemate Facility (or Gen	erator)				Manifest Reference	ce Number:	U.S. EPA ID N	lumber			
늘	100. A	iternate Facility (or Gen	ciaiUi j						U.S. EFA IU N	i i i i i i i i i i i i i i i i i i i			
짛									1				
9		y's Phone: ignature of Alternate Fac	cility (or Generator)								Me	onth Day	y Year
₹			,								-		
DESIGNATED FACILITY	19. Ha	zardous Waste Report I	Management Method (	Codes (i.e., codes for hazardous v	waste treatment, dispo	osal, and re	cycling systems)						
- DES	1.	1040		2. 11040	İ	H04			4.	040			
	20. De	signated Facility Owner	or Operator: Certificat	ion of receipt of hazardous mater	ials covered by the m	anifest exce	ept as noted in Ite	em 18a					
		1/Typed Name	,			Signature					Мо	onth Day	Year
Ţ					1						1		1

Ple:	ase pri	int or type. (Form designed for use on elite (	(12-pitch) typewriter.)					Form	Approved.	OMB No.	2050-0039
1	UNIF	FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number 3.4				es/ inching Nut				
	24. G	enerator's Name	PAD0023121	791	2012	0034	52947FLE				
		Sunoco Inc									
	25. T	Fransporter Company Name					U.S. EPA ID N	Number			
	26. T	ransporter Company Name					U.S. EPA ID N	Number			
	27a. HM	27b. U.S. DOT Description (including Proper Shi and Packing Group (if any))	ipping Name, Hazard Class, ID Nu	ımber,	28. Contain No.	ers Type	29. Total Quantity	30. Unit Wt./Vol.	31. \	Vaste Codes	3
	×	AS UNGRAL, WASTE PHENOL	SOLUTIONS, 6-1, P	3H 779					<del>U188</del> -	· 173	
	X	6. UN2810, WASTE TOXICLE ACETOPHENONE), 8.1, PG II	QUIDS, ORGANIC, N	.9.9, (PHENOL,	12	024	4,365	þ	KU22		
	x	7. UN3243, WASTE SOLIDS (CUMENE, PHENOL), 6.1, PG	CONTAINING TOXIC	LKQIJI <b>D, N.</b> O.S.,		D^1	1,225	در	U1.83		
GENERATOR -	x	8. UN3244, WASTE SOLIDS N.O.S., (SODIUM HYDROXIDE	CONTAINING CORRO	SIVE LIQUID,	4	کرز	Y. 0		D002		
- GEN											
	32. S	pecial Handling Instructions and Additional Informa	ation								
Į.	6.1	330741 BROWLES 45 37556 ERG#153 12 - S 37560 ERG#151 11 - S									-
띪	33 Tr	ansporterAcknowledgment of Receipt of dd/Typed Name	Materials	Signature					Mo	nth Day	Year
TRAN	Printe	ansporter Acknowledgment of Receipt of d/Typed Name	мателаіѕ	Signature					Mo	nth Day	Year
ΙŢ	35. Di	screpancy									<b></b>
<b>DESIGNATED FACILITY</b>											
GNATE	1	azardous Waste Report Management Method Coo		ste treatment, disposal, and i		3. 111.41					
DES			7.9					1			



Page : 1 of 2

Printed Date :Dec 14, 2010

MANIFEST INF	3222222222222222222 <b>2</b>		=======================================		***************************************
Generato					Manifest Tracking Info.
Addres	Marraratand	Bermuda Street PA 19137			003452947FLE
EPA ID	#: PAD0023	12791		Sale	es Order No: 733247600
LINE ITEM INF	ORMATION	*			
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
		1007/2			
EPA Waste Co	de			EPA Wa	ste SubCategory
0001					quids
				1	
LINE ITEM INF		:Drofile No:	Trootobility Croup:		LDB Disposal Catagon
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
2.	1	L38662	NON-WASTEWAT	ER	2 (This is subject to LDR.)
EPA Waste Co	L de	.L	L	FPA Wa	Lste SubCategory
D001					, except High TOC Liquids
D003				Other read	
U096				NONE	
LINE ITEM INF	ORMATION			i	
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
3.	1	38669	NON-WASTEWAT	ER	2 (This is subject to LDR.)
		<u> </u>	<u> </u> 	,	
EPA Waste Co	de				ste SubCategory
U188				NONE	
LINE ITEM INF	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
	1 1	CH12050	NON-WASTEWAT		2 (This is subject to LDR.)
4.	1	CH12050	INON-WASTEWAT	EK	2 (This is subject to LDR.)
EPA Waste Co	ide	.L	L	EPA Wa	iste SubCategory
K022				NONE	
LINE ITEM INF	ORMATION				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category
					O (This is subject to LDD)
			L		
<b>EPA Waste Co</b>	de			EPA Was	ste SubCategory



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	LDR Chemical Data										
Chemical				Inderlying lazardous onstituents	Constituents of Soncern	Contaminanto Treatment					
Phenol						N					
INCLEA											
Line Item:	Page No:	Profile No:	Treatability Group		LDR Disposal Category						
6.	2	L37556	NON-WASTEWA	rer	2 (This is subject to LDR	.)					
EPA Waste Co	± de	L	Ĺ	EPA Wa	ste SubCategory						
K022				NONE							
LINE ITEM IN	ORMATION			-L							
Line Item:	Page No:	Profile No:	Treatability Group		LDR Disposal Category						
7.	2	L37560	NON-WASTEWA	TER .	2 (This is subject to LDR	.)					
EPA Waste Co	i de	L	L	EPA Wa	iste SubCategory						
U188				NONE							
LINE ITEM IN	FORMATION			-L							
Line Item:	Page No:	Profile No:	Treatability Group		LDR Disposal Category						
8.	2	L38661	NON-WASTEWA	TER	3 (Alternate Debris Stand	dard)					
EPA Waste Co	,L ode	L	L	PPA Wa	Jste SubCategory						
D002				~ ~~~~~~~~	Characteristic						
		Certif	ication	- <b>L</b>		Applies to Manifest Line Items					
Part 268.			· 		tricted under 40 CFR	2. 3. 4. 6. 7.					
This hazardous	s debris is subject to	o the Alternate Tre	atment Standards	of 40 CFR	268.45.	8.					
Waste analysis Signature : Title :	data, where availed a subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the	s Stanchar	Print Nam  Date :		Hizenne Blanchard 12/12/2010						



Page : 1 of 1

Printed Date :Jan 12, 2011

MANIFEST INF		*****************	######################################	*********	######################################	******************	
Generator: Sunoco Inc -				Manifest Tracking Info.			
Address: Margaret and Bermuda Street Philadelphia,PA 19137				003916186FLE			
EPA ID	#: PAD0023	12791		Sal	es Order No: 733273646	·	
LINE ITEM INF							
Line Item:	Page No:	Profile No:	Treatability Group:	i '			
1.	1	CH12050	NON-WASTEWAT	ER	2 (This is subject to LDR.	)	
EPA Waste Co	i de	L	L	EPA Wa	ste SubCategory		
K022				NONE			
LINE ITEM INF	ORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
2.	1	L37556	NON-WASTEWAT	ER	2 (This is subject to LDR.	.)	
EPA Waste Co	i de	L	<u> Luncassensensensensen</u>	EPA Wa	ste SubCategory		
K022				NONE			
LINE ITEM INF	ORMATION			.L			
Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category			
3.	1	L38661	NON-WASTEWATER 3 (Alternate Debris Standard)			lard)	
EPA Waste Co	L de	L	L	EPA Wa	ste SubCategory		
D002				f	Characteristic		
		Certif	ication	<b></b>	· .	Applies to Manifest Line Items	
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR 1. 2. Part 268.						1. 2.	
This hazardous debris is subject to the Alternate Treatment Standards of 40 CFR 268.45.						3.	
Waste analysis Signature : Title :	1/	ible, is attached.  Litarchar  entil Engine	'	. A	drienne Blanchard 1119/2011		
		~~~~~~					

Ple	ase pr	int or type. (Form designed for use on elite	(12-pitch) typewriter.) <b>533394658-001</b> 21. Generator ID Number			.0/26/201 lest Tracking Nur	1 0.1	n Approved	. OMB No. 2	2050-003
1	UNII	FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	PAD 0 0 2 3 1 2 7 9 1	22. Page 2 of 2	1	17962FLE				
	24. 0	Generator's Name Sunces Inc		1 200 5	1 0000					
	25	Company Name				U.S. EPA ID I	Number			
	25.	Transporter Company Name				1				
	26. 1	Fransporter Company Name				U.S. EPA ID I	Number			
	27a. HM	27b. U.S. DOT Description (including Proper Sh and Packing Group (if any))	ipping Name, Hazard Class, ID Number,	28. Contair No.	ners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Codes	
	x	5. UN3245, WASTE SOLIDS (CUMENE, PHENOL), 6.1, PG	CONTAINING TOXIC LIQUID, N.O.S.,	002	D M	00120	P	U188		
	x	6. UN\$243, WASTE SOLIDS (CUMYL PHENOL, PHENOL),	CONTAINING TOXIC LIQUID, N.O.S., 6.1, PG II	001	DM	00000	P	K022		
	×		OLIDS, ORGANIC, N.O.S., (CHROMIUM	204	D.44	00000		D007	D008	
		LEAD), 6.1, PG H		001	DM	00060	P			
GENERATOR	x	8. UN2821, WASTE PHENO	001	D M	00150	P	U188			
I GEN	×	9. UNSO90, LITHIUM BATTE	RY, 9, PG II, UNIVERSAL WASTE	001	D M	00025	Р			
		10. NON DOT REGULATED N BULBS-UNIVERSAL WASTE)	IATERIAL, (FLUORESCENT LIGHT	001	CF	00018	P			
							<u> </u>			
		·								
							<u> </u>			
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1										
V							<b> </b>	<u> </u>		
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	6.4	pecial Handling Instructions and Additional Inform L37560 ERG   151 2X55 CH12050 ERG   151 1X55 L330319 ERG   154 1X55 L339744 ERG   153 1X55	ation 9.CH486672 ERG#138 1X5 10.CH486669 1X4FTI	В				•	•	
띪	33. Tr	ransporter Acknowledgment of Receipt of ed/Typed Name	Materials Signature					M	onth Day	Year
PORT										1
TRANSPORTER	34. Tr Printe	ransporterAcknowledgment of Receipt of ad/Typed Name	Materials Signature					M	onth Day	Year
_		iscrepancy	L							1
<b>DESIGNATED FACILITY</b>										
GNATE	36. H	azardous Waste Report Management Method Co	des (i.e., codes for hazardous waste treatment, disposal, and r		8. H040	)		9. H04	0	
DES	1	LO. HO39	I				1			



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والمراقع والمراجع والمراجع والمراجع والمراجع والمراجع	ental services	• • === #22 === == #2 #2 #5 ## #	**************	100 110 110 110 110 110 110 110 110 110			
	INFORMATION			,	ann manang unbann sananang panan was san san san san san san san san san s		
Generator: Sunoco inc				Manifest Tracking Info.			
Add	and Bermuda Street nia,PA 19137			003917962FLE			
EPA	ID#: PADOO	2312791		S	sales Order No: 633394658-001		
	INFORMATION		<u>, , , , , , , , , , , , , , , , , , , </u>				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
1.	1	L37557	NON-WASTEWA	TER	2 (This is subject to LDR.)		
<b>EPA Waste</b>	Code			EPA W	/aste SubCategory		
D001	<del>هم هم سخیب هسمی میسم جیشه</del> ماههار			High TO	C Ignitable Liquids		
U055				NONE			
LINE ITEM	INFORMATION	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			50000000000000000000000000000000000000		
Line item:	Page No:	Profile No:	Treetability Group:		LDR Disposal Category		
2.	1	L339743	NON-WASTEWA	TER	2 (This is subject to LDR.)		
<b>EPA Waste</b>	Code			EPA Waste SubCategory			
D001				High TOC Ignitable Liquids			
U002U055				NONE			
	INFORMATION						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
3.	1	L38662	NON-WASTEWA	TER	2 (This is subject to LDR.)		
<b>EPA Waste</b>	Code			EPA W	/aste SubCategory		
D001				Ignitables, except High TOC Liquids			
D003				Other reactives			
U098				NONE			
LINE ITEM	INFORMATION		76 T NG 1664 (1666 1666 1666 1666 1666 1666 166		N 644 2 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
Line Item:	Page No:	Profile No:	Treetability Group:		LDR Disposal Category		
4.	1	L37558	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste Code					EPA Waste SubCategory		
K022							
LINE ITEM	INFORMATION				1		
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
5.	2	L37560	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA W	aste SubCategory		
U188				NONE			



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LINE ITEM IN	EODMATION				*******************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	:XY
3.	2	CH12050		NON-WASTEWATER 2 (Th		
EPA Waste Co	ode			EPA Wa	ste SubCategory	
K022	- mau		# ## # # # <b># ## # # #</b> # # # # # # # #	NONE	12. 55. 220. 23. 44. 42. 44. 42. 42. 42. 42. 42. 42. 42	
LINE ITEM IN						
ine Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	xy
7.	2	L330319	NON-WASTEWAT	NON-WASTEWATER 2 (This is subject to LDR.)		DR.)
EPA Waste Co	xie			EPA Wa	ste SubCategory	
0007				Toxicity C	haracteristic for Chromiu	m
2008				Toxicity Cl	haracteristic for Lead	
			LDR Chemical Da	ta		
Chemical			t t	Inderlying lazardous onstituents	Constituents of Concern	Contaminants Subject to Treatment
Chromium				Y	N	N
LEAD				Y	N	N
LINE ITEM IN						
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	
<b>B</b> .	2	L339744	NON-WASTEWAT	ER	2 (This is subject to L	DR.)
EPA Waste Co	- <u>1</u>		·	EPA Wa	ste SubCategory	
U188				NONE		
			LDR Chemical Da	ta		
Chemical			†	inderlying lazardous onstituents	Constituents of Concern	Contaminants Subject to Treatment
I TWO THE PERSON						



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<u>Certification</u>					Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.					
This waste is not	restricted as specif	led in 40 CFR 268 Subp	pert D.		9. 10.
Waste analysis de Signature : Title :	ta, where evallable	ENGINEER	Print Name Date :	Mex, Due 170	LEZ

# Attachment 10A Job Descriptions of Material Handler and Lab Assistant

#### 1.0 Purpose/Scope:

The purpose of this procedure is to identify the duties and responsibilities of the *Material Handler* position in the Distribution department.

This procedure will apply to the *Material Handler* and operators from the maintenance labor gang who will provide back up coverage for this position.

#### 2.0 Definitions:

Material Handler – Name of the position in the distribution department who operates a forklift and handles all package material handling in the Frankford plant.

Distribution Coordinator- Supervisor who coordinates workload for the Material Handler.

Distribution Supervisor – Supervisor of the distribution department. PPE – Personal Protective Equipment.

#### 3.0 General Requirements

Material Handler must be forklift certified and trained on DOT regulations for loading and unloading of trucks in the plant. Must be trained on regulations for handling of hazardous materials.

#### 4.0 Key Responsibilities

This will be the responsibility of the *Material Handler* and back-up to follow this procedure.

The *Distribution Coordinator* has responsibility to communicate to the *Material Handler* the workload priority on a daily basis.

#### 5.0 Procedure/Process

Upon arrival to the plant check voicemail on phone located in the warehouse for any messages, needs to be checked first thing and periodically during the workday.

Complete a full inspection of all 3 forklifts before operating any of them. Report any operational issues with the forklifts to the *Distribution Coordinator* or *Distirbution Supervisor*.

Take Daily Inventory of the following products in the plant:

top, allow full tote to flow to the low tote. Remove the empty tote, wash hoses and return them to the warehouse.

**Unload virgin or reactivated carbon as required**. Delivered on a flat bed truck. Need to unload the truck using a forklift and store in the warehouse or at the units when required.

Load and Unload acid totes and S02 bottle racks as needed. Weigh and ship equipment from the storeroom as required. Place empty 17H drums as needed by employees at the decon pad, move full labeled drums to the Hazmat drum park.

**Prepare Hazmat or residual drums for shipping** as required by the environmental department.

Place hoses at proper locations as required by shippers and operations department. Return rolled up hoses to the cage in the warehouse when finished.

**Preparing Spent Carbon for shipment**: Make sure carbon bags are sitting squarely on the pallet. Do not allow bag to overhang on the pallet. Weigh each pallet on the truck scale using the forklift to transport. Record weight on a piece of paper, once all carbon bags are weighed, remove tags from the bags from the shipper. Retag the bags evenly between the 2 trucks. Trucks must be flatbeds. Guards must weigh trucks upon arrival and at final departure after loading has been completed.

Preparing HAZMAT drums for shipment: Get a list of the drums to be shpped from the environmental department. Weigh the drums on the truck scale minus 80lbs from the total weight of the pallet. Divide the total by 4 to get the weight of each drum. Write the weight on the drum rings. Line the drums up in the warehouse for shipment. Stencil the profile number on the top of the drum in 1" stencil. Trucks can take approximately 90 to 96 drums according to weight. Truck must be weighed in/out of the plant. Truck must not exceed 80,000lbs DOT weight limit restriction. Complete the hazmat drum shipment sheet with the number of drums & seal numbers, when the truck is loaded call the environmental department at extension 8442 for the shipping manifest papers.

Revision Log

Revision Date	Document Approver	Document Reviewers HES	Document Writer	Revision Number & Details Brief description of why the document was revised.
12-04-03	D. Sekel		B. Cornwall	Revision 00: Initial SOP.

### Frankford Plant

# **Job Description**

Position Title	Lab Assistant				
Department	Quality Control Laboratory				
Reports to	Quality Control Supervisor				
Summary of Position	<ul> <li>Everyday: Trash removal, floor/counter cleaning and disposing glass, tags and caps to appropriate areas. Dispose chemicals and chemical waste to appropriate areas. Take samples to CDL, check with stores, deliver material from stores to QCL, maintain inventory. Maintain QCL sample retention room. Take customer sample packages to main gate as needed, deliver mail to QCL and OPS. Clean CP break area and bathrooms. Maintain hallway from foreman's office to lab. Sweep/Mop, remove trash from foreman's office, controls office and control room.</li> <li>Monday: Deliver check standards from CDL to QCL</li> <li>Monday, Wednesday and Friday: Take empty water bottles down and full ones up to Lab</li> <li>Tuesday and Friday: Stage empty 12 pack cylinders for Air Gas to pick up and set up full 12 packs in their assigned areas.</li> <li>As needed assist Material Handler with SO2 cylinders</li> </ul>				
Minimum Education	High School Diploma				
Minimum Experience	Familiar with handling and disposing of chemicals.				
Skills/Equipment	Operate Jittney, glass crusher				
Working Conditions	Works in Quality Control Lab, sample storage room and designated areas throughout plant.				

# Attachment 10B Job Descriptions for Other Primary Manufacturing Jobs

Job Title: Unit 3 Oxidation Operator

#### **General Description:**

Services field requirements of unit 3 Oxidation area and works with unit 3 phenol board operator to control process in area. Services: Recycle cumene scrubbing system, oxidizers, filters, pre-flasher, flash column, decomposer, dehydrators, ion exchangers and other equipment as designated by supervision.

Operates in the field taking samples, reading field instruments, making batch pumpings, and observing the operation of equipment.

#### **Specific Description:**

- Must know the location and proper identification of oxidizers, preflasher, flash column, decomposer, dehydrators, ion exchangers, tanks, filters, including all associated lines, pumps, heat exchangers, instruments and control valves.
- 2. Must know the process flow for the following, including equipment, cooling equipment and utility lines to and from::

Catalytic Oxidation

OX-501 Oxidizer

OX-401 Oxidizer

OX-301 Oxidizer

OX-302 Oxidizer

PF-301 Pre-flasher

CL-300 Flash Column

VT-307 decomposer

Recycle Cumene System

Big Billy Refrigeration Unit

IR Air Compressor

Other Equipment as designated by Management.

- 3. Must know how and when to take and record measurements and readings on pumping sheets, inventory sheets and board log sheets.
- 4. Must know and stay abreast of changes in the following operating Procedures:

- Sampling, specifically, sample point locations, sampling frequency, lab analysis required and proper method of sample disposal.
- b. Swinging and cleaning recycle cumene and flash column feed filters. Taking Selas filters off-line for cleaning or maintenance.
- c. Shutting down or starting up oxidizers in normal and emergency situations.
- d. Swinging and regeneration of charcoal adsorbers, manually if necessary. Quenching for maintenance or emergency.
- e. Putting the Pre-flasher on recycle manually. starting it up, shutting it down, flushing it with cumene, charging the deluge drum with cumene.
- f. Putting the flash column on recycle manually, starting it up, shutting it down, flushing it with cumene, charging the deluge drum with cumene.
- g. Putting the decomposer on recycle manually, charging with crude product, starting it up, shutting it down, standard boilout.
- h. swinging and changing cylinders in the SO2 system, manipulating CHP flow to calorimeters using jumper lines.
- i. Taking dehydrators off-line for maintenance, putting in series, putting in parallel.
- j. How to (re) start Big Billy, how to set up cooling water, how to redirect brine flow to units, how to make up brine at VT-750.
- k. Swinging jets on pre-flasher and flash column.
- Swinging pumps, priming, draining, tagging and locking out for maintenance.
- m. Draining, flushing and blowing lines and equipment.
- n. How and when to (re) direct effluent flows to phenolic and non-phenolic sewer. How to pump away phenolic water/oil to VT-105. Air Oil pumps, readings.
- o. Start-up/Shutdown and Normal Operation for CAT-OX.

- 5. "Must maintain cleanliness and order in 3 Oxidation working area"
- Inspects all items of equipment under operators jurisdiction at least twice per shift, reporting any abnormalities and making minor adjustments where authorized.
- 7. Assists the phenol board operator by:
  - a. Taking special or extra readings and samples as directed.
  - b. Reporting unusual conditions or inventory changes to the board operator even though these conditions may be indicated on the control room console.
  - c. Coordinates own actions with those of other operators in the field and renders assistance when necessary.
- 8. Must know the exact published procedures for emergency action in 3 oxidation section and be prepared to follow them without further direction when an emergency requires or when instructed to do so by a supervisor.
- 9. Will perform any other task which may be deemed necessary as determined by Supervisor or Department Supervision.
- 10. Follow Safety Regulations, and Procedures.
- 11. Takes field bi-hourly readings and records readings in control room.
- 12. Will receive training on all regulatory requirements ie. EPA, DOT, OSHA and all job specific requirements.

# Job Title: Environmental Compliance Operator

#### **General Description:**

Services field requirements of Environmental Compliance area and works with unit 2 phenol board operator to control process in area.

Services: PR-2, CL-610, Process Sewers and other equipment as designated by management.

Operates in the field taking samples, reading field instruments, making batch pumpings, and observing the operation of equipment.

#### **Specific Description:**

- Must know the location and proper identification of columns, tanks, including all associated lines, pumps, heat exchangers, instruments and control valves.
- 2. Must know the process flow for the following, including utility lines to and from:

CL-601

CL-610

Springer (VT-604)

Feed water preparation

PR-2 main area and tank farm.

"M" sewer

All process sewers

Other Equipment as designated by Management.

- 3. Must know how and when to take and record measurements and readings on pumping sheets, inventory sheets and board log sheets.
- 4. Must know and stay abreast of changes in the following operating Procedures:
  - Sampling, specifically, sample point locations, sampling frequency, lab analysis required and proper method of sample disposal.
  - b. Shutting down or starting up columns in normal and emergency situations. How to put on recycle and how to boilout.
  - c. Draining, flushing and blowing lines and equipment.

- d. Swinging pumps, draining, tagging and locking out for maintenance.
- e. How and when to (re) direct effluent flows to phenolic and nonphenolic sewers.
- 5. "Must maintain cleanliness and order in working area"
- Inspects all items of equipment under operators jurisdiction at least twice per shift, reporting any abnormalities and making minor adjustments where authorized.
- 7. Assists the phenol board operator by:
  - a. Taking special or extra readings and samples as directed.
  - b. Reporting unusual conditions or inventory changes to the board operator even though these conditions may be indicated on the control room console.
  - c. Coordinates own actions with those of other operators in the field and renders assistance when necessary.
- 8. Must know the exact published procedures for emergency action in environmental section and be prepared to follow them without further direction when an emergency requires or when instructed to do so by a supervisor.
- 9. Will perform any other task which may be deemed necessary as determined by Supervisor or Department Supervision.
- 10. Safety Regulations, and Procedures.

Job Title: Pumper

#### **General Description:**

Services the pumping requirements of the department. Services the transfer of refined products (phenol, acetone, AMS), 118 Phenol, crude materials transfers (crude product, crude acetone, crude AMS), cumene, sprung phenol, phenate, caustic, phenol water, residue, effluent oil, sulfate, off-spec materials (cumene, acetone, phenol, AMS, unloading and loading of tank trucks and tank cars. Operates in the field taking samples, reading field instruments, and observing the operation of equipment.

#### **Specific Description:**

- 1. Must know the location and proper identification of tanks, lines, pumps throughout department and other areas of the plant.
- 2. Must know the types of materials transferred to, and storage tanks in and outside of the department (acetone, AMS, residue.)
- 3. Must know how and when to take and record measurements and readings on pumping sheets, daily inventory sheets, filling out shipping sheets, tank car inspections reports, receiving records, etc.
- 4. Loading tank trucks (phenol)
- 5. Unloading of 50% caustic from tank cars and tank trucks at track 14 and tank cars from track 10 & 11 to VT-345, VT-337, VT-231, VT-615 and VT-616.
- 6. Must know how to transfer refined product and off-spec products.
- 7. Transfer of various materials using multipurpose lines throughout the department.
- 8. Sampling of various tanks as deemed necessary by supervision.
- 9. Tank readings every two (2) hours as deemed necessary by supervision and 0500 morning inventory.
- 10. General housekeeping of work area.
- 11. Draining, flushing and blowing of lines, pumps, etc.
- 12. Will perform any other task which may be deemed necessary as determined by supervisor or department supervision.
- 13. Must follow all Safety Regulations, and Procedures.

Job Title: Unit 2 Oxidation Operator

#### **General Description:**

Services field requirements of unit 2 Oxidation area and works with unit 2 phenol board operator to control process in area. Services: Oxidizers, filters, pre-flasher, flash column, decomposer, dehydrators, ion exchangers and other equipment as designated by management.

Operates in the field taking samples, reading field instruments, making batch pumpings, and observing the operation of equipment.

#### **Specific Description:**

- Must know the location and proper identification of oxidizers, preflasher, flash column, decomposer, dehydrators, ion exchangers, tanks, filters, including all associated lines, pumps, heat exchangers, instruments and control valves.
- 2. Must know the process flow for the following, including equipment, cooling equipment and utility lines to and from::

OX-201 Oxidizer

OX-202 Oxidizer

PF-201 Pre-flasher

CL-200 Flash Column

VT-208 Decomposer

Ion Exchangers

Recycle Cumene System

Big Ben & Bertha Refrigeration Unit

Nitrogen system

CL-220 Batch Still

CL-206 Phenol Topping Column

CL-208 Refined Acetone Column

Other Equipment as designated by Management.

- 3. Must know how and when to take and record measurements and readings on pumping sheets, inventory sheets and board log sheets.
- 4. Must know and stay abreast of changes in the following operating Procedures:

- Sampling, specifically, sample point locations, sampling frequency, lab analysis required and proper method of sample disposal.
- Swinging and cleaning recycle cumene and flash column feed filters.
- c. Shutting down or starting up oxidizers in normal and emergency situations.
- d. Swinging and regeneration of charcoal adsorbers, manually if necessary. Quenching for maintenance or emergency.
- e. Putting the Pre-flasher on recycle manually, starting it up, shutting it down, flushing it with cumene, charging the deluge drum with cumene.
- f. Putting the flash column on recycle manually, starting it up, shutting it down, flushing it with cumene, charging the deluge drum with cumene.
- g. Putting the decomposer on recycle manually, charging with crude product, starting it up, shutting it down, standard boilout.
- h. swinging and changing cylinders in the SO2 system, manipulating CHP flow to calorimeters using jumper lines.
- Swinging ion exchangers on and off line, regenerating with caustic, water washing with soft water, making up a new caustic tank, pumping away regeneration tank phenate. also, ion exchanger back fluffing with nitrogen.
- j. Taking dehydrators off-line for maintenance, putting in series, putting in parallel.
- k. How to (re) start Big Ben & Bertha, how to set up cooling water, how to redirect brine flow to units.
- 1. Swinging jets on pre-flasher and flash column.
- m. Swinging pumps, priming, draining, tagging and locking out for maintenance.
  - n. Draining, flushing and blowing lines and equipment.

- o. How and when to (re) direct effluent flows to phenolic and nonphenolic sewer. How to pump away phenolic water/oil to VT-105.
- 5. "Must maintain cleanliness and order in 2 Oxidation working area"
- Inspects all items of equipment under operators jurisdiction at least twice per shift, reporting any abnormalities and making minor adjustments where authorized.
- 7. Assists the Phenol Board Operator by:
  - a. Taking special or extra readings and samples as directed.
  - b. Reporting unusual conditions or inventory changes to the board operator even though these conditions may be indicated on the control room console.
  - c. Coordinates own actions with those of other operators in the field and renders assistance when necessary.
- 8. Must know the exact published procedures for emergency action in 2 oxidation section and be prepared to follow them without further direction when an emergency requires or when instructed to do so by a supervisor.
- 9. Will perform any other task which may be deemed necessary as determined by Supervisor or Department Supervision.
- 10. Follow Safety Regulations, and Procedures.

Job Title: Unit 2 Stills Operator

#### **General Description:**

Services field requirements of unit 2 stills area and works with unit 2 phenol board operator to control process in area. Services crude acetone column, cumene recovery column, crude alpha methyl styrene column, refined phenol column, all columns in the AMS unit and other equipment as designated by management.

Operates in the field taking samples, reading field instruments, making batch pumpings, and observing the operation of equipment.

#### **Specific Description:**

- Must know the location and proper identification of columns, tanks, jets, including all associated lines, pumps, heat exchangers, instruments and control valves.
- 2. Must know the process flow for the following, including utility lines to and from:
  - CL-201 Crude Acetone Column
  - CL-203 Crude Cumene Recovery Column
  - CL-204 Crude AMS column
  - CL-205 Phenol Column
  - CL-111 AMS Recovery Column
  - CL-112 Cumene Recovery column
  - CL-113 Refined AMS Column
  - CL-101 Crude Acetone Column
  - CL-114 Acetone Recovery Column
  - Other Equipment as designated by Management.
- 3. Must know how and when to take and record measurements and readings on pumping sheets, inventory sheets and board log sheets.
- 4. Must know and stay abreast of changes in the following operating Procedures:
  - a. Sampling, specifically, sample point locations, sampling frequency, lab analysis required and proper method of sample disposal.

- b. Shutting down or starting up columns in normal and emergency situations. How to put on total reflux and how to boilout.
- c. Draining, flushing and blowing lines and equipment.
- d. Swinging pumps, priming under atmospheric and vacuum conditions, draining, tagging and locking out for maintenance.
- e. Draining, flushing and blowing lines and equipment.
- f. How and when to (re) direct effluent flows to phenolic and nonphenolic sewers.
- 5. "Must maintain cleanliness and order in 2 stills working area"
- Inspects all items of equipment under operators jurisdiction at least twice per shift, reporting any abnormalities and making minor adjustments where authorized.
- 7. Assists the phenol board operator by:
  - a. Taking special or extra readings and samples as directed.
  - b. Reporting unusual conditions or inventory changes to the board operator even though these conditions may be indicated on the control room console.
  - c. Coordinates own actions with those of other operators in the field and renders assistance when necessary.
- 8. Must know the exact published procedures for emergency action in 2 stills section and be prepared to follow them without further direction when an emergency requires or when instructed to do so by a supervisor.
- 9. Will perform any other task which may be deemed necessary as determined by Supervisor or Department Supervision.
- 10. Safety Regulations, and Procedures.

Job Title: Unit 3 Stills Operator

#### **General Description:**

Services field requirements of unit 3 stills area and works with unit 3 phenol board operator to control process in area. Services crude acetone column, de-watering column, cumene recovery column, crude alpha methyl styrene column, residue column, and other equipment as designated by management.

Operates in the field taking samples, reading field instruments, making batch pumpings, and observing the operation of equipment.

#### **Specific Description:**

- Must know the location and proper identification of columns, tanks, jets, including all associated lines, pumps, heat exchangers, instruments and control valves.
- 2. Must know the process flow for the following, including utility lines to and from:

CL-301 Crude Acetone Column

CL-302 De-watering Column

CL-303 Crude Cumene Recovery Column

CL-304 Crude AMS column

CL-305 Phenol Column

CL-306 Residue Column

CL-308 Refined Acetone Column

CL-120 High Purity Column

CL-121 High Purity Column

Other Equipment as designated by Management.

- 3. Must know how and when to take and record measurements and readings on pumping sheets, inventory sheets and board log sheets.
- 4. Must know and stay abreast of changes in the following operating Procedures:
  - Sampling, specifically, sample point locations, sampling frequency, lab analysis required and proper method of sample disposal.
  - b. Charging the cumene scrubbers, and pumping away the phenate.

- c. Shutting down the scrubbers, or by-passing a scrubber.
- d. Shutting down or starting up columns in normal and emergency situations. How to put on total reflux and how to boilout.
- e. Draining, flushing and blowing lines and equipment.
- f. Swinging pumps, priming under atmospheric and vacuum conditions, draining, tagging and locking out for maintenance.
  - g. Draining, flushing and blowing lines and equipment.
  - h. How and when to (re) direct effluent flows to phenolic and nonphenolic sewers.
- 5. "Must maintain cleanliness and order in 3 stills working area"
- Inspects all items of equipment under operators jurisdiction at least twice per shift, reporting any abnormalities and making minor adjustments where authorized.
- 7. Assists the phenol board operator by:
  - a. Taking special or extra readings and samples as directed.
  - b. Reporting unusual conditions or inventory changes to the board operator even though these conditions may be indicated on the control room console.
  - c. Coordinates own actions with those of other operators in the field and renders assistance when necessary.
- 8. Must know the exact published procedures for emergency action in 3 stills section and be prepared to follow them without further direction when an emergency requires or when instructed to do so by a supervisor.
- 9. Will perform any other task which may be deemed necessary as determined by Supervisor or Department Supervision.
- 10. Safety Regulations, and Procedures.

# Attachment 10C RCRA Training Records